

AD-A118 508 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
SEATTLE TACOMA IAP, WASHINGTON. REVISED UNIFORM SUMMARY OF SURF--ETC (11)  
JUN 82  
UNCLASSIFIED USAFETAC/DS-82/038 SBI-AD-F850 197 NI



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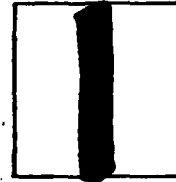


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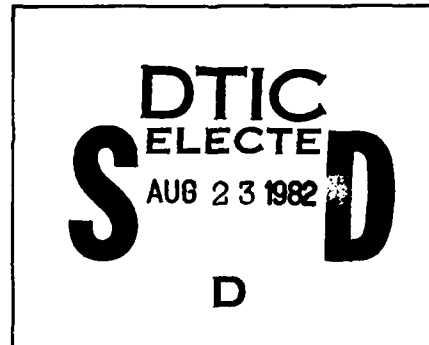
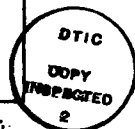
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REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER OBSERVATIONS

SEATTLE/ TACOMA IAP, WA MSC 727930  
N 47 27 W 122 18 FLD ELEV 428 FT SEA

PARTS A-F  
POR FROM HOURLY OBS: JAN 73 - DEC 81  
POR FROM DAILY OBS: JAN 48 - DEC 81  
TIME CONVERSION GMT TO LST: -8

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FEDERAL BUILDING  
ASHEVILLE, N. C.

JUN 21 1982



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This technical report has been reviewed and is approved for publication.

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WAYNE E. MCCOLLOM  
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WALTER S. BURGMANN  
AWS Scientific and Technical  
Information Officer (STINFO)



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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM															
1. REPORT NUMBER USAFETAC/DS- 82/038	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER															
4. TITLE (and Subtitle) Revised Uniform Summary of Surface Weather Observations (RUSSWO)- SEATTLE/TACOMA IAP, WASHINGTON	5. TYPE OF REPORT & PERIOD COVERED Final rept.																
7. AUTHOR(s)	6. PERFORMING ORG. REPORT NUMBER																
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17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)																	
18. SUPPLEMENTARY NOTES																	
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) <table border="0"> <tr> <td>*RUSSWO</td> <td>Daily temperatures</td> <td>Atmospheric pressure</td> </tr> <tr> <td>Snowfall</td> <td>Extreme snow depth</td> <td>Extreme surface winds</td> </tr> <tr> <td>Climatology</td> <td>Sea-level pressure</td> <td>Psychrometric summary</td> </tr> <tr> <td>Surface Winds</td> <td>Extreme temperature</td> <td>Ceiling versus visibility</td> </tr> <tr> <td>Relative Humidity</td> <td>*Climatological data</td> <td>(over)</td> </tr> </table>			*RUSSWO	Daily temperatures	Atmospheric pressure	Snowfall	Extreme snow depth	Extreme surface winds	Climatology	Sea-level pressure	Psychrometric summary	Surface Winds	Extreme temperature	Ceiling versus visibility	Relative Humidity	*Climatological data	(over)
*RUSSWO	Daily temperatures	Atmospheric pressure															
Snowfall	Extreme snow depth	Extreme surface winds															
Climatology	Sea-level pressure	Psychrometric summary															
Surface Winds	Extreme temperature	Ceiling versus visibility															
Relative Humidity	*Climatological data	(over)															
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report is a six-part statistical summary of surface weather observations for SEATTLE/TACOMA IAP, WASHINGTON It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (daily amounts and extreme values); (C) Surface winds; (D) Ceiling versus Visibility; Sky Cover; (E) Psychrometric Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb (over)																	

DD FORM 1473  
1 JAN 73

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19. Percentage frequency of distribution tables  
Dry-bulb temperature versus wet-bulb temperature  
Cumulative percentage frequency of distribution tables  
WASHINGTON SEATTLE/TACOMA IAP, WASHINGTON
20. and dew point temperatures and relative humidity); and (F) Pressure  
Summary (means, standard, deviations, and observation counts of  
station pressure and sea-level pressure). Data in this report are  
presented in tabular form, in most cases in percentage frequency of  
occurrence or cumulative percentage frequency of occurring tables.

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The number that identifies the station in this summary is an AWS Master Station Catalog number. This number is comprised of the WMO number with the addition of a suffix zero; or, in cases where there is no designated WMO number, a 5-digit number created in agreement with WMO rules, plus a sixth qualifying digit. These numbers (also referred to as DATSAV or USAFETAC numbers) uniquely identify each of more than 15,000 reporting stations around the world. This is the provenance of the number (e.g., MSC 999999) which will appear on future OL-A standard products.



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

### HOURLY OBSERVATIONS

Hourly observations are defined as those record or record-special observations recorded at scheduled hourly intervals.

### DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into summary of the day observations. (Excluded from record-special: local, summary of the day, remarks, etc.)

### DESCRIPTION OF SUMMARIES

Each section is a brief description of the data comprising each part of the Revised Uniform Summary of Surface Weather Observations and the manner of presentation. Information is prepared from hourly and daily observations recorded by stations operated by the U. S. Air Force and by foreign stations with similar reporting practices.

In this service noted the following summaries are included for this station:

#### PART A WEATHER CONDITIONS

##### ATMOSPHERIC PHENOMENA

#### PART B PRECIPITATION

##### SNOWFALL

##### SNOW DEPTH

#### PART C SURFACE WINDS

#### PART D CEILING VERSUS VISIBILITY

##### SKYCOVER

#### PART E DAILY MAX, MIN, & MEAN TEMP

##### EXTREME MAX & MIN TEMP

##### PSYCHROMETRIC-DRY VS WET BULB

##### MEAN & STD DEV (DRY BULB, WET BULB, & DEW POINT)

##### RELATIVE HUMIDITY

#### PART F STATION PRESSURE

##### SEA LEVEL PRESSURE

### STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0300, 0300-0600, 0600-0900, 0900-1200, 1200-1500, 1500-1800, 1800-2100, 2100-2400 hours local standard time.

### MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY \_\_\_\_\_

APRIL \_\_\_\_\_

JULY \_\_\_\_\_

OCTOBER \_\_\_\_\_

FEBRUARY \_\_\_\_\_

MAY \_\_\_\_\_

AUGUST \_\_\_\_\_

NOVEMBER \_\_\_\_\_

MARCH \_\_\_\_\_

JUNE \_\_\_\_\_

SEPTEMBER \_\_\_\_\_

DECEMBER \_\_\_\_\_



STATION NO ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	FIELD ELEV (FT.)	CALL SIGN	WMO NUMBER
727930	SEATTLE-TACOMA IAP WA	N 47 27	W 122 18	428	SEA	24233

### STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FIELD (FT)	HT. BARO.	
	Seattle-Tacoma Arpt Adm Bldg	WBAS	02 Nov44	02 Oct47	N 47 26	W 122 18	400	402	24
	Same		03 Oct47	Dec 49	Same	Same	400	383	24
	Same		Jan 49	22 Nov55	N 47 27	W 122 18	400	451	24
	Same		23 Nov55	Oct 56	Same	Same	424	451	24
	Same		01 Nov56	17 Mar59	Same	Same	386	451	24
	Same	Same	18 Mar59	Nov 70	Same	Same	428	451	24
	Same	WSO	Dec 70	Jan 81	Same	Same	Same	Same	24
	Seattle-Tacoma IAP		Feb 81		Same	Same	Same	Same	24
	# Nov 81 last entry NWS stn history								

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
	20 Jan50	Located on Tower	Elec		108.9 ft	Cardion Model 213
	15 Jun56	Same	Speed		112 ft	
			Elec			
	21 Nov59	Located on Field	Speed		20 ft	
			Electric			
	02 Feb65	Same	Speed			
	30 Nov67	Same	F420C		20 ft	
			F420C			
	02 Dec69	Located on field	F420C		20 ft	
			F102/F005		20 ft	
			F420C	F312	20 ft	



NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
	Nov 81	Same	F102 F105 Same	Same	Same	

10-5075



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

A

## PART A

## WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse



Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.



U.S. AIR FORCE  
 AIRCRAFT SERVICE/MAC

# WEATHER CONDITIONS

STATION SEATTLE/TACOMA JAP, WA YEARS 73-81 JAN. MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	0-23		21.3	.1	3.5		24.7	22.3	1.1	.1		24.2	825
	3-10		24.1	.4	3.9	.1	27.5	23.9		.1		23.9	829
	11-18		24.7	.4	2.9		27.8	24.8	.6			25.1	814
	19-26		23.6	.2	2.7		23.1	24.4	1.9		.1	25.1	827
	27-31		21.0		2.5		23.3	20.5	3.5			23.4	824
	1-17		21.7		2.5		24.1	17.9	4.0			20.8	825
	18-2		19.7		3.5		22.6	18.5	3.2			20.8	833
	3-23		16.1	.4	3.3		21.2	18.1	1.5			19.5	830
TOTALS			21.4	.2	3.1	.1	24.3	21.4	2.0	.1	.1	23.1	6613

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U.S. AIR FORCE  
METEOROLOGICAL BRANCH  
METAC  
WEATHER SERVICE/MAC

## WEATHER CONDITIONS

STATION  
SEATTLE/TACOMA IAP, WA

73-61

YEARS

FEB  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
FEB	0-12		22.4		1.2		23.6	13.6	1.3			14.7	755
	13-23	.1	27.9		1.5		28.9	16.0	1.1			16.4	754
	0-23		24.7		2.0		26.2	19.6	.4			19.8	749
	9-11		19.6		.9		20.4	16.2	1.3			17.4	754
	12-14		22.0		1.3	.1	22.9	11.5	2.3			13.1	746
	15-17	.1	23.0		1.7		24.3	8.9	2.8			11.6	749
	18-20		24.2		1.7		25.4	12.7	3.2			14.7	748
	21-23		25.2		1.2		26.2	10.7	2.0			12.2	747
TOTALS		.2	23.6		1.4	.1	24.7	13.7	1.3			15.0	6062

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METEOROLOGICAL  
WEATHER SERVICE/MAC

# WEATHER CONDITIONS

STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

MAP  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIR	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
MAR	0-22		18.4		.2		18.5	6.4	.4			6.5	826
	03-25		19.0		.6		19.6	9.3	.2		.1	9.4	831
	26-31		20.2		1.4		21.1	14.1	.4			14.4	831
	1-11		19.8		.7		20.4	10.7	1.3			11.7	824
	12-14		18.8		.2		19.0	4.7	1.7			6.7	823
	15-17		19.2		.1	.1	19.2	3.5	.5			3.9	824
	18-20	.1	18.5		.2		18.8	3.2				3.2	821
	21-23		18.9		.5		19.1	3.6	.2			3.8	826
TOTALS		.1	18.1		.5	.0	19.5	6.9	.6		.0	7.4	6606

ORIGINAL DATA RECORDED IN SYNOPTIC CODE



U.S. AIR FORCE  
CLIMATE DIVISION  
CLIMATE SERVICE/MAC

## WEATHER CONDITIONS

STATION 73-81 STATION NAME SEATTLE/TACOMA TAP, WA YEARS APP MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	00-01	.4	16.5		.4		16.6	4.1	.1			4.1	799
	02-03	.4	17.9		.1		18.0	6.9				6.9	794
	04-05		17.1		.3		17.1	12.3	.3			12.5	797
	06-07	.1	15.8		.1		15.8	7.5	1.4			8.8	804
	08-09	.1	13.4				13.4	2.1				2.1	794
	10-11	.1	13.9				13.9	2.3				2.3	798
	12-13		15.8		.1		15.8	2.6				2.6	796
	14-15		16.0				16.0	2.9				2.9	807
	16-17												
	18-19												
	20-21												
	22-23												
TOTALS		.1	15.8		.1		15.8	5.1	.2			5.3	6789

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NATIONAL CLIMATOLOGY BRANCH  
METAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

7-1-81  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81

YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	00-05		11.1				11.1	2.8				2.8	826
	06-11		16.1				16.1	5.0	.1			5.1	827
	12-17		15.8				15.8	8.4	1.0			9.0	818
	18-23		12.1				12.1	5.0	.6			5.6	824
	24-29	.2	13.0				13.0	2.9				2.9	816
	30-31		14.6				14.6	2.7				2.7	826
	01-05		12.8				12.8	1.3	.1			1.5	820
	06-10		12.1				12.1	2.5			.1	2.7	829
	11-15												
	16-20												
	21-25												
	26-30												
TOTALS		.0	13.5				13.5	3.8	.2		.0	4.0	6586

ORIGINAL DATA RECORDED IN SYNOPTIC CODE



GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
WEATHER SERVICE/MAC

## WEATHER CONDITIONS

STATION SEATTLE/TACOMA IAP, WA YEARS 73-81 MONTH JUN

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	0-72		8.4				8.4	3.5				3.5	799
	3-15	.1	11.4				11.4	6.9	.2			7.1	801
	16-28		12.6				12.6	11.3	.3			11.4	787
	29-11		11.1				11.1	5.8	.4			6.1	800
	12-14		8.4				8.4	2.8	.5			3.3	799
	15-17	.2	8.6				8.6	2.2	.1			2.4	801
	18-2		5.3				5.3	1.4	.4			1.8	793
	21-23		6.6				6.6	2.0				2.0	800
TOTALS		.0	9.1				9.1	4.5	.2			4.7	6387

ORIGINAL DATA RECORDED IN SYNOPTIC CODE



1  
FEDERAL CLIMATOLOGY BRANCH  
METAC  
WEATHER SERVICE/MAC

## WEATHER CONDITIONS

STATION SEATTLE/TACOMA IAP, WA YEARS 73-81 JUL  
STATION NAME MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	00-05		4.0				4.0	2.3				2.3	832
	06-11		6.9				6.9	6.9				6.9	823
	12-17	.1	7.2				7.2	12.6	1.0			13.5	824
	18-23	.1	5.2				5.2	7.5	1.1			6.6	828
	24-31	.2	4.0				4.0	1.2	1.0			2.2	823
	01-06	.1	4.9				4.9	.5	.2			.7	821
	07-12	.1	4.6				4.6	1.1	.1			1.2	827
	13-18		3.6				3.6	1.2	.4			1.6	826
	19-24												
	25-31												
TOTALS		.1	5.1				5.1	4.2	.5			4.6	6604

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USAFETAC FORM 0-10-5 (OL A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



1. NATIONAL CLIMATOLOGY BRANCH  
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## WEATHER CONDITIONS

7. 73 STATION SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81

YEARS

AUG  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	10-00	.2	7.3				7.3	5.7	.5			6.1	824
	13-15		8.3				8.3	15.9	1.0			16.7	828
	16-18		10.7				13.7	28.0	2.0			29.1	814
	19-11		8.7				8.7	20.0	4.4			22.9	825
	12-14	.1	8.9				8.9	6.6	4.3			10.2	822
	15-17		9.1				9.1	4.4	1.8		.1	6.2	822
	18-20		6.8				6.8	4.5	.7			5.1	824
	21-23	.1	6.4				6.4	4.7	.6			5.0	826
TOTALS		.1	8.3				8.3	11.2	1.9		.0	12.7	6585

ORIGINAL DATA RECORDED IN SYNOPTIC CODE



NATIONAL CLIMATOLOGY BRANCH  
 METEC  
 WEATHER SERVICE/MAC

## WEATHER CONDITIONS

STATION

SEATTLE/TACOMA TAP, WA  
 STATION NAME

73-81

YEARS

SEP  
 MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	00-01		16.0				10.0	10.9	1.3			12.1	799
	3-05		12.2				12.2	18.0	1.3			19.2	796
	06-08		11.0				11.0	29.3	3.4			31.6	788
	09-11		10.1				10.1	18.1	3.6			21.3	801
	12-14	.1	9.4				9.4	6.3	4.2			10.3	794
	15-17	.1	10.8				10.8	5.3	1.8			7.0	799
	18-2	.1	8.9				8.8	3.6	1.3			4.9	797
	21-23	.1	7.8				7.8	4.5	1.5			5.9	796
TOTALS		.1	13.0				10.0	12.0	2.3			14.3	6370

ORIGINAL DATA RECORDED IN SYNOPTIC CODE



## WEATHER CONDITIONS

OCT  
MONTH

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	00-34		10.9				10.6	21.3	2.7			22.2	817
	35-65		14.7				14.7	30.8	1.5			31.3	817
	66-94		14.0				14.0	36.5	2.7			37.8	820
	95-11		13.2		.1	.1	13.5	28.6	7.2			32.8	823
	12-14		14.6				14.6	13.3	10.4			22.6	824
	15-17		15.3				15.3	10.4	5.5			15.8	830
	18-21		14.2				14.2	10.3	3.9			13.5	825
	21-23	.1	13.0				13.0	12.1	3.6			14.5	825
TOTALS		.0	13.7		.0	.0	13.8	20.4	4.7			23.9	6581

USAFETAC FORM 0-10-5(OL A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JULY 64



1. LOCAL CLIMATOLOGY BRANCH  
2. TETAC  
3. WEATHER SERVICE/MAC

## WEATHER CONDITIONS

7. STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81

YEARS

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	00-01	.1	21.2		1.5		22.6	23.8	1.9			24.7	787
	03-05		19.2		1.1	.1	20.5	25.4	.1			25.4	796
	06-08		21.1		1.0		22.1	27.1	.4			27.1	797
	09-11		20.8		.4		21.0	24.2	.9			24.4	794
	12-14	.1	18.8		.1	.1	19.1	16.8	4.5			19.5	796
	15-17		21.3		.8		21.9	14.0	4.0			16.8	798
	18-20	.1	25.0		1.2	.1	26.1	15.5	3.2			17.9	804
	21-23		22.6		2.0		24.6	19.4	4.1			21.9	800
TOTALS		.3	21.3		1.0	.0	22.2	20.8	2.4			22.2	6372

ORIGINAL DATA RECORDED IN SYNOPTIC CODE



U.S. NATIONAL CLIMATOLOGY BRANCH  
 METAC  
 WEATHER SERVICE/MAC

# WEATHER CONDITIONS

STATION SEATTLE/TACOMA TAP, WA

73-81

YEARS

DEC  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	0-22		24.0		1.5		25.3	19.8	.6			20.5	825
	3-15		26.1		1.7		27.2	20.3	.4			20.7	828
	16-28		26.6		1.1		27.3	20.7	.5			20.9	820
	29-31		24.8		1.2		25.9	20.3	.6			20.5	826
	12-14		27.6		1.7		29.0	22.2	.4			22.5	816
	15-17		25.7	.1	1.0	.1	26.5	20.1	.6			20.6	816
	18-21		23.2	.1	1.0		24.1	17.9	1.2			18.9	825
	22-23		24.9		1.1		25.7	18.1	1.6			19.1	822
TOTALS			25.4	.0	1.3	.0	26.4	19.9	.8			20.5	6578

ORIGINAL DATA RECORDED IN SYNOPTIC CODE



AL CLIMATOLOGY BRANCH  
 1740  
 WEATHER SERVICE/MAC

## WEATHER CONDITIONS

STATION SEATTLE/TACOMA IAP, WA YEARS 73-81 ALL MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL		21.4	.2	3.1	.0	24.3	21.4	2.0	.0	.0	23.0	6603
FEB		.0	23.6		1.4	.0	24.7	13.7	1.8			15.0	6002
MAR		.0	19.1		.5	.0	19.5	6.9	.6		.0	7.4	6606
APR		.1	15.8		.1		15.8	5.1	.2			5.3	6389
MAY		.0	13.5				13.5	3.8	.2		.0	4.0	6586
JUN		.0	9.1				9.1	4.5	.2			4.7	6380
JUL		.1	5.1				5.1	4.2	.5			4.6	6604
AUG		.1	5.3				8.3	11.2	1.9		.0	12.7	6585
SEP		.1	10.0				10.0	12.0	2.3			14.0	6370
OCT		.0	13.7		.0	.0	13.8	20.4	4.7			23.8	6581
NOV		.0	21.3		1.0	.0	22.2	20.8	2.4			22.2	6372
DEC			25.4	.0	1.3	.0	26.4	19.9	.8			20.5	6578
TOTALS		.0	15.5	.0	.6	.0	16.1	12.0	1.5	.0	.0	13.1	77656

ORIGINAL DATA RECORDED IN SYNOPTIC CODE



## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

- NOTES: (1) A day with rain and/or drizzle was not separately reported in the WBAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
- (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
- (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than  $5/8$  mile.



AL CLIMATOLOGY BRANCH

ENTAC

WEATHER SERVICE/MAC

XX **WEATHER CONDITIONS** XX  
ATMOSPHERIC PHENOMENA

STATION NAME: FATTLEXTACOMA IAP, WA 48-81 YEARS: ALL MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM DAILY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY	.6	65.7	1.4	27.4	1.2	76.1	56.5	18.1	.6		61.1	1054
FEB		1.4	60.7	.3	15.7	1.4	71.1	43.4	19.1	.1		54.4	961
MAR		1.7	55.9	.1	12.7	3.2	69.0	30.0	13.5			40.7	1054
APR		2.0	62.9		3.3	1.9	63.3	30.4	11.6			34.6	1020
MAY		2.7	52.9		.1	1.1	52.3	26.7	11.9			30.7	1054
JUN		3.0	40.6			.2	49.6	27.6	10.1			30.7	1020
JUL		3.0	31.1			.1	31.1	27.7	14.1		.1	31.7	1054
AUG		2.5	30.0			.2	36.0	42.5	27.4			49.1	1054
SEP		2.7	43.5		.2	.1	43.5	56.2	36.3			63.4	1020
OCT		.9	55.7		.4	.2	55.7	61.4	37.9			65.9	1054
NOV		1.7	70.4	.5	5.9	1.3	71.6	60.6	24.1			64.1	1020
DEC		1.1	73.7	.5	18.3	1.4	78.1	60.4	16.3	.3		64.3	1052
TOTALS		1.9	56.4	.2	7.0	1.0	58.3	44.5	20.0	.1	.0	49.2	12417



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This part of the Uniform Summary consists of eight summaries derived from daily observations as follows:

B

1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.
2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (\*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:

EXTREME DAILY PRECIPITATION	".00"	equals none for the month (hundredths)
EXTREME DAILY SNOWFALL	".0"	equals none for the month (tenths)
EXTREME DAILY SNOW DEPTH	"0"	equals none for the month (whole inches)

3. The third set of two tables provides the total monthly amounts of PRECIPITATION and SNOWFALL for each year-month and annual. Also prepared are the means, standard deviations, and total number of valid observations for each month and annual (all months). An asterisk (\*) is printed in each data block if one or more days are missing for the month. No occurrences for a month are indicated in the same manner as in the extreme tables above. If a trace becomes the extreme or monthly total in any of these tables it is printed as "TRACE."

Continued on Reverse Side

\* Values for means and standard deviations do not include measurements from incomplete months.



- NOTES: (1) The above studies may also be prepared for stations operating for less than full months for portions or all of the period of record. This may include stations operating 5 or 6 days a week and those with only random days missing. An asterisk (\*) in the data blocks will give an indication that a month is incomplete. Please refer to Station History at front of book and observation counts in each summary to evaluate the amounts of data missing.
- (2) Hail was included in snowfall occurrences in the summary of day observations prior to Jan 56, but these occurrences have been removed from snowfall category and counted as Hail in these summaries.
- (3) Snow Depth was recorded and punched at various hours during the period available from U. S. operated stations. The hours used by each service for each period are as follows:

Air Force Stations:

Beginning thru 1945	at 0800LST
Jan 46-May 57	at 1230GMT
Jun 57-present	at 1200GMT

U. S. Navy and National Weather Service (USWB)

Beginning thru Jun 52	at 0030GMT
Jul 52-May 57	at 1230GMT
Jun 57-present	at 1200GMT



2 GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
PRECIPITATION  
(FROM DAILY OBSERVATIONS)

7779 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

48-81  
YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	23.2	14.6	3.3	9.6	8.4	15.2	12.5	9.3	3.1					61.5	1054	5.82	12.92	.84
FEB	23.9	14.6	4.6	9.2	8.2	13.5	12.3	7.7	1.6	.2				56.5	961	4.35	9.11	1.58
MAR	21.0	14.0	4.6	10.7	7.1	15.7	11.1	5.1	.6	.1				54.9	1054	3.69	8.40	.57
APR	35.7	17.1	4.2	10.4	9.4	10.9	8.6	2.3	.4					46.2	1019	2.41	4.19	.33
MAY	47.1	19.3	4.7	9.1	5.7	8.2	4.8	1.3	.1					33.7	1054	1.64	4.76	.38
JUN	50.4	19.1	4.4	8.0	4.9	7.4	4.0	1.7	.1					30.5	1020	1.39	3.82	.13
JUL	64.9	14.6	2.4	4.4	1.9	4.7	1.9	1.2						16.5	1054	.80	2.10	TRACE
AUG	62.7	15.0	2.7	6.5	3.8	4.9	3.2	1.4	.5					23.1	1054	1.26	4.59	.01
SEP	55.9	11.6	3.3	6.3	5.0	8.4	5.0	3.1	.8					32.0	1020	2.11	5.95	TRACE
OCT	44.3	12.6	3.2	6.5	5.7	12.1	8.3	5.8	1.3	.1				43.1	1054	3.61	7.75	.72
NOV	29.4	13.4	2.9	7.3	8.6	13.8	13.0	8.9	3.5	.1				58.1	1020	5.67	9.69	.74
DEC	21.9	12.8	4.5	8.6	7.7	18.2	14.5	8.4	3.5					65.3	1052	6.33	11.85	1.37
ANNUAL	41.7	14.9	3.7	8.0	6.4	11.1	8.3	4.7	1.3	.0				43.4	12416	39.08		



U.S. CLIMATOLOGY BRANCH  
140  
NATIONAL SERVICE/AC

# EXTREME VALUES

PRECIPITATION

FROM DAILY OBSERVATIONS

STATION PATLUX/TACOMA IAP, WA YEARS 1951

## 24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1	.74	.43	2.74	.71	.84	.92	.44	.41	1.51	1.05	.97	.84	2.04
2	.82	1.33	.65	.25	.31	.22	.54	.25	.77	1.17	1.35	1.27	1.63
3	1.46	.93	2.02	.75	.25	.22	.36	1.20	.99	.92	1.17	.98	1.78
4	1.13	2.78	.65	.54	.44	.07	.25	.76	.92	.92	.21	.58	2.98
5	1.07	.74	.68	.71	.24	.32	.33	.38	.17	.35	.37	.77	1.20
6	1.34	.63	.86	.32	.51	.60	.53	.42	1.65	1.27	.99	1.19	1.65
7	1.54	1.23	.83	.52	.61	.84	.75	.37	.46	.73	1.22	1.10	1.64
8	.82	2.58	.39	.76	.53	.40	.62	.08	.51	1.19	2.18	1.93	2.54
9	1.22	.47	.61	.18	.44	.51	.29	.49	.58	1.27	.47	1.74	1.74
10	.82	1.11	1.01	.44	.35	.40	.74	.61	.39	.80	.94	.75	1.11
11	1.77	.70	.35	.74	.52	.62	TRACE	.11	.39	1.19	1.22	1.13	1.78
12	1.37	.67	.57	1.06	.49	.53	.25	.42	.81	.74	1.41	1.51	3.41
13	1.27	1.04	.65	.52	.66	.39	TRACE	.60	.55	1.24	1.64	1.23	1.64
14	.97	1.55	.77	.35	.87	.34	.64	.56	.11	.56	1.17	.94	1.55
15	1.22	.36	.76	.61	.73	.21	.77	.61	.77	1.15	1.46	1.75	1.46
16	.76	1.22	.70	.63	.45	.49	.41	.21	.22	1.29	1.27	.91	1.32
17	1.37	.45	.71	.36	.22	.83	.51	.52	.65	.34	1.56	1.28	1.52
18	.21	1.19	.18	1.85	.66	.44	.21	.88	.22	.63	1.16	1.27	1.85
19	1.23	.72	.93	1.04	.76	.53	.51	.79	.86	.83	1.68	1.75	1.70
20	2.21	.83	.75	.38	.12	1.00	.01	.32	.31	1.23	.56	.83	2.26
21	1.17	1.63	.79	.44	.70	1.75	.45	1.60	.54	.67	1.45	1.65	1.85
22	.71	1.65	.58	.58	1.83	.58	.20	.17	1.27	.49	1.54	.83	1.83
23	1.65	.94	1.16	.92	.69	.16	.30	.24	.71	.56	1.76	1.67	1.67
24	.82	.74	.94	.96	.31	.36	.24	.76	.66	.66	1.37	1.61	1.61
25	1.66	2.23	2.70	.79	.24	.66	.64	.45	1.05	.36	.48	1.02	2.72
26	1.27	.54	.62	.54	.46	.67	.05	.14	.42	1.18	1.48	1.26	1.48
27	1.73	1.13	1.22	.39	.22	.46	.51	.01	.16	.90	.80	2.14	2.14
28	1.50	1.76	.84	.67	.47	.23	.12	1.63	TRACE	1.24	1.74	1.75	1.76
29	1.13	.73	.51	.42	.40	.33	.57	.95	.63	.79	.25	.47	1.13
30	.5	.56	.63	.10	.97	.50	.22	1.49	.67	.67	1.46	1.55	1.55
MEAN													
S. D.													
TOTAL OBS.													

NOTE \* (BASED ON LESS THAN FULL MONTHS)



2

POLEONATAT

FROM DAILY OBSERVATIONS

STATION	STATION NAME
	STILL / TACOMA RAP, WA

45-50'

YEARS

MOISTURE AMOUNTS IN INCHES

[illegible]

NOTE - (BASED ON LESS THAN FULL MONTHS)

1210 WS FORM 0.88-5 (OLI)



2

METEOROLOGICAL BRANCH

1961

STATION - SERVICE/MASS

**EXTREME VALUES**XXXXXXXXXXXXXXXXXXXX  
MONTHLY PRECIPITATION

FROM DAILY OBSERVATIONS

STATION

STATION NAME

YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1	4.11	2.25	2.98	2.75	4.76	2.08	1.53	1.97	3.65	2.33	1.70	5.13	45.72
2	4.11	5.89	2.34	1.14	1.30	.93	1.04	.92	1.43	3.25	6.76	7.31	32.87
3	5.91	5.74	2.41	2.02	.74	.59	1.75	2.17	2.30	2.21	7.98	7.14	50.14
4	6.11	3.70	3.70	.65	1.61	.13	.31	1.22	2.33	5.67	1.44	3.22	40.37
5	4.51	2.46	3.03	2.03	.89	1.04	.41	.71	.32	1.29	1.11	5.72	35.78
6	11.02	3.77	3.77	2.38	2.51	1.35	.66	1.11	3.25	4.43	7.22	5.92	49.40
7	8.35	4.33	2.7	2.34	1.89	2.44	1.46	1.57	1.69	1.91	7.67	4.77	41.70
8	7.11	4.30	2.25	3.64	1.95	1.27	2.11	.17	1.52	6.60	9.96	9.50	45.61
9	6.87	2.17	4.05	.73	.93	2.47	.33	.78	2.42	6.71	1.59	5.62	30.05
10	2.71	5.57	2.26	2.23	1.17	1.18	1.10	1.64	.76	3.79	3.20	5.50	34.63
11	7.71	5.36	2.26	3.51	.94	.90	TRACE	.31	1.42	3.99	5.27	7.15	42.63
12	7.71	3.74	4.12	2.59	1.61	1.82	.93	.60	4.60	2.67	8.14	5.93	46.57
13	5.41	4.01	4.05	2.98	3.74	.71	TRACE	1.92	1.17	4.22	9.73	3.75	39.23
14	7.71	9.11	4.46	2.35	3.27	.54	.75	.82	.46	3.27	4.67	5.32	42.53
15	2.43	2.29	2.26	2.03	1.82	.68	.69	1.96	2.31	4.16	9.34	5.22	35.79
16	2.71	4.36	3.43	3.16	.90	1.69	1.18	.73	.59	5.06	2.69	5.79	38.72
17	9.74	1.66	2.96	1.56	.91	3.82	.99	1.23	2.27	1.20	9.65	5.93	41.34
18	5.77	3.88	.57	3.73	1.63	.59	.38	2.18	.49	2.76	4.98	7.11	33.56
19	3.43	2.31	4.38	1.99	1.35	1.15	1.35	.42	1.77	2.92	5.85	8.71	30.23
20	9.32	2.72	3.71	2.51	.38	2.04	.01	.02	.94	6.66	2.56	4.72	35.58
21	6.4	5.18	5.05	1.73	1.67	3.02	.83	4.56	1.93	4.32	5.86	8.55	50.15
22	5.71	3.16	2.70	3.45	2.93	.91	.27	.45	5.57	1.19	2.21	5.68	33.73
23	6.72	2.26	3.16	3.31	1.17	.43	.48	.32	2.23	2.52	5.73	5.25	27.41
24	5.32	4.36	7.12	2.19	1.43	2.28	.68	.57	3.51	3.57	5.31	6.67	43.21
25	7.24	8.11	5.74	4.12	.69	1.81	1.34	1.13	4.10	.72	3.38	8.96	48.36
26	4.22	1.89	1.62	1.35	1.67	2.53	.06	.27	1.81	3.31	7.99	8.73	35.78
27	7.72	4.11	5.84	2.39	1.37	1.25	1.51	.01	.21	1.59	5.16	6.45	27.87
28	6.11	3.80	2.87	2.49	1.13	.84	.27	4.59	TRACE	7.75	5.77	7.66	44.48
29	5.55	4.74	2.71	1.67	1.61	.63	1.17	2.71	1.25	2.76	.74	1.86	26.70
30	1.77	1.58	3.80	.55	3.70	.54	.42	3.59	2.55	2.60	5.27	6.47	22.94
MEAN													
S. D.													
TOTAL OBS.													

NOTE \* (BASED ON LESS THAN FULL MONTHS)

1210 WS FORM 0-88.5 (OLI)



**EXTREME VALUES**  
 XXXXXXXXXXXXXXXXXXXXXXXX  
 MONTHLY PRECIPITATION

FROM DAILY OBSERVATIONS

STATION

ATTN: PROBATION TAD, CA  
STATION NAME

44-21

YEARS

## TOTAL MONTHLY PRECIPITATION IN INCHES

[illegible]

NOTE: \* BASED ON LESS THAN FULL MONTHS)



2 GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOWFALL  
(FROM DAILY OBSERVATIONS)

77930 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

48-81  
YEARS

AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	72.0	14.8	4.3	3.6	2.0	1.3	.6	.2	.4	.1	.1			12.5	1053	6.7	57.2	.0
FEB	65.3	10.8	1.4	.9	.7	.3	.2	.2	.1					3.9	961	1.7	13.1	.0
MAR	37.3	9.1	.9	1.3	.9	.2		.3						3.6	1054	1.5	18.2	.0
APR	96.3	3.2	.3	.2										.5	1019	.1	2.3	.0
MAY	99.9	.1													1054	TRACE	TRACE	.0
JUN	100.0														1020	.0	.0	.0
JUL	100.0														1054	.0	.0	.0
AUG	100.0														1054	.0	.0	.0
SEP	99.8	.2													1020	TRACE	TRACE	.0
OCT	99.6	.3			.1									.1	1054	.1	2.0	.0
NOV	94.1	4.0	.6	.6	.4	.1		.2						1.9	1020	.8	6.0	.0
DEC	81.7	12.3	2.0	1.8	1.7	.7	.2	.2	.3					6.1	1052	3.3	22.1	.0
ANNUAL	93.7	4.6	.8	.7	.4	.2	.1	.1	.1	.0	.0			2.4	12415	14.2		



2

CLIMATE BUREAU - WASH  
 75-1-1  
 1. CLIMATE SERVICE / MAC

# EXTREME VALUES

SNOWFALL

(FROM DAILY OBSERVATIONS)

7 STATION 1210 W3 ADOMA TAP, WA 48-1 YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1	1.5	1.6	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.0	2.0
2	2.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	4.6
3	1.0	.4	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	2.0
4	1.0	.3	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	1.0	5.0
5	.0	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	7.0
6	TRACE	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	TRACE	TRACE
7	5.0	TRACE	2.0	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	5.0
8	TRACE	2.0	4.5	.0	.0	.0	.0	.0	.0	.0	4.6	4.7	4.7
9	.0	4.2	1.4	.0	.0	.0	.0	.0	.0	TRACE	.0	2.6	4.2
10	1.4	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	3.4
11	.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	5.1	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	5.1
13	1.0	.0	4.7	.0	.0	.0	.0	.0	.0	.0	5.2	.0	5.2
14	.0	TRACE	1.7	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	1.0
15	.0	7.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	7.0
16	2.0	.5	TRACE	.0	.0	.0	.0	.0	.0	.0	1.0	TRACE	2.0
17	.0	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	2.2	7.3	3.3
18	.0	TRACE	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	3.9	3.9
19	1.0	TRACE	7.5	TRACE	.0	.0	.0	.0	.0	.0	.0	2.0	2.5
20	5.0	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	2.6	5.0
21	2.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	9.3	9.3
22	14.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	14.0
23	TRACE	.0	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	1.5	1.5
24	3.3	1.5	1.3	TRACE	.0	.0	.0	.0	.0	2.0	TRACE	2.8	3.3
25	7.0	.2	TRACE	1.2	.0	.0	.0	.0	TRACE	.0	TRACE	4.2	7.0
26	1.0	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.3	1.0
27	.0	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	5.8	5.8
28	.0	TRACE	TRACE	.2	.0	.0	.0	.0	.0	.0	.0	2.6	2.6
29	TRACE	.3	.2	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	.3
30	1.0	TRACE	.7	.0	.0	.0	.0	.0	.0	.0	1.6	TRACE	1.0
MEAN													
S. D.													
TOTAL OBS.													

NOTE \* (BASED ON LESS THAN FULL MONTHS)



155

FILE NO. 33-2410-1440

SNO. FALL

(FROM DAILY OBSERVATIONS)

ATTN: ALACAMA TRAP, WA

45-51

STATION

STATION NAME

YEARS

24 HOUR AMOUNTS IN INCHES

[illegible]

NOTE \* (BASED ON LESS THAN FULL MONTHS)



CLIMATOLOGY - WANCH  
 SERVICE/MSO

# EXTREME VALUES

XXXXXXXXXXXXXXXXXXXX  
 MONTHLY SNOWFALL

FROM DAILY OBSERVATIONS

STATION ATTU/ATACOMA IAD, VA

43-81

YEARS

## TOTAL MONTHLY SNOWFALL IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1	1.7	2.2	TRACE	TRACE	.1	.1	.1	.1	.1	.1	TRACE	.1	5.7
2	6.1	13.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	21.0
3	17.7	.4	TRACE	TRACE	.1	.1	.1	.1	.1	.1	1.0	2.0	37.6
4	1.4	.5	18.2	TRACE	.1	.1	.1	.1	.1	.1	.1	.1	27.4
5	6.7	TRACE	TRACE	.1	.1	.1	.1	.1	.1	.1	.1	TRACE	5.7
6	TRACE	TRACE	TRACE	TRACE	.1	.1	.1	.1	.1	.1	TRACE	TRACE	TRACE
7	7.1	TRACE	3.2	TRACE	.1	.1	.1	.1	.1	.1	.1	TRACE	27.7
8	TRACE	3.2	1.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	25.5
9	.1	.4	3.3	.1	.1	.1	.1	.1	.1	TRACE	.1	.1	15.1
10	7.1	7.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	TRACE	14.7
11	.1	.1	TRACE	.1	.1	.1	.1	.1	.1	.1	.1	.1	.7
12	.1	6.5	TRACE	.1	.1	.1	.1	.1	.1	.1	TRACE	TRACE	9.7
13	.1	.1	3.3	.1	.1	.1	.1	.1	.1	.1	.1	.1	17.5
14	.1	TRACE	1.1	.1	.1	.1	.1	.1	.1	.1	TRACE	.1	7.7
15	1.1	7.0	1.7	.1	.1	.1	.1	.1	.1	.1	.1	TRACE	9.7
16	3.1	.5	TRACE	.1	.1	.1	.1	.1	.1	.1	1.0	TRACE	4.5
17	.1	TRACE	TRACE	TRACE	.1	.1	.1	.1	.1	.1	.1	7.6	11.9
18	7.3	TRACE	TRACE	.1	TRACE	.1	.1	.1	.1	.1	.1	15.3	22.6
19	2.1	TRACE	3.5	TRACE	.1	.1	.1	.1	.1	.1	.1	2.1	9.6
20	3.9	TRACE	TRACE	TRACE	.1	.1	.1	.1	.1	.1	.1	3.6	9.5
21	7.9	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	22.1	30.1
22	45.4	TRACE	.1	.1	.1	.1	.1	.1	.1	.1	TRACE	.1	45.4
23	TRACE	.1	TRACE	TRACE	.1	.1	.1	.1	.1	.1	TRACE	2.4	2.9
24	9.1	2.2	1.9	TRACE	.1	.1	.1	.1	.1	2.0	TRACE	17.6	25.8
25	14.7	.3	TRACE	2.3	.1	.1	.1	.1	TRACE	.1	TRACE	5.6	22.2
26	1.7	TRACE	.1	TRACE	.1	.1	.1	.1	.1	.1	.1	.1	4.0
27	7.7	TRACE	TRACE	.1	.1	.1	.1	.1	.1	.1	.1	.1	13.5
28	1.3	TRACE	TRACE	.1	.1	.1	.1	.1	.1	.1	1.6	2.0	5.7
29	TRACE	.5	.1	TRACE	.1	.1	.1	.1	.1	.1	.1	TRACE	.7
30	1.1	TRACE	.9	.1	.1	.1	.1	.1	.1	.1	2.5	TRACE	5.4
MEAN													
S. D.													
TOTAL OBS.													

NOTE \* (BASED ON LESS THAN FULL MONTHS)



2  
1

CLIMATE BRANCH  
TAC  
ATLANTA, GEORGIA

# EXTREME VALUES

XXXXXXXXXXXXXXXXXXXX  
MONTHLY SNOWFALL

FROM DAILY OBSERVATIONS

STATION ATLANTA, GEORGIA 140, 141 STATION NAME ATLANTA YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1	TRACE	.4	TRACE	TRACE	.	.	.	.	.	.	.	.	5.1
2	.	.4	.	.	.	.	.	.	.	.	.	.	5.7
3	.	.4	.1	TRACE	.	.	.	.	.	.	TRACE	.	11.7
4	.	1.1	.	.	.	.	.	.	.	.	.	TRACE	1.2
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
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22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
MEAN	0.75	1.58	1.53	.9	TRACE	.30	.30	.30	TRACE	.76	.79	3.75	14.30
S. D.	12.442	3.191	3.549	.467	.300	.30	.300	.300	.300	.343	1.634	5.718	17.637
TOTAL OBS.	1753	461	1354	1012	1054	1320	1054	1054	1323	1754	1720	1752	12015

NOTE \* BASED ON LESS THAN FULL MONTHS



2 GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATTN: WEATHER SERVICE/MAC

## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

7 793 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

46-81  
YEARS

AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	2.1	5.5	2.8	2.4	2.7	2.2	1.8	.6						12.3	1053			
FEB	2.7	3.5	1.4	.3	.5	1.4	.2							3.7	961			
MAR	6.4	1.8	.5	.7	.3	.3	.1							1.8	1054			
APR	9.8	.1		.1										.1	1019			
MAY	0.0														1054			
JUN	0.0														1020			
JUL	0.0														1054			
AUG	0.0														1054			
SEP	0.0														1020			
OCT	9.9			.1										.1	1054			
NOV	7.4	1.4	.7	.2	.3	.1								1.3	1020			
DEC	1.9	3.9	1.8	.6	.6	1.0	.2							4.2	1052			
ANNUAL	6.7	1.3	.6	.4	.4	.4	.2	.0						2.0	12415			



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## EXTREME VALUES

1994

FROM DAILY OBSERVATIONS

ATTORNEY GENERAL

4-1-1

STATION

STATION NAME

YEARS

WILLY LOW DEPTH IN INCHES

[illegible]

NOTE: \* BASED ON LESS THAN FULL MONTHS)

1210 WS FORM 0-88.5 (OLI)







U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

- \* 1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (\*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

- \* 2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VREL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

\*Values for means and standard deviations do not include measurements from incomplete months.



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U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANOGRAPHIC SERVICE

# EXTREME VALUES

SURFACE WIND

(FROM DAILY OBSERVATIONS)

STATION ATTLA, PACIFIC OCEAN STATION NAME ATTLA YEARS 1951

## DAILY PEAK GUSTS IN KNOTS

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1	24	29	24	26	23	23	23	16	21	27	27	21	24
2	37	30	30	33	26	26	22	25	23	21	34	21	27
3	42	39	34	41	41	23	20	26	24	21	20	42	27
4	42	41	40	34	29	24	17	25	24	26	27	44	27
5	41	35	27	32	29	23	24	31	24	24	47	44	27
6	35	30	26	26	26	20	21	23	23	21	40	27	27
7	32	32	27	27	32	27	20	23	23	36	34	42	27
8	31	31	27	27	23	23	17	30	24	21	39	21	27
9	34	34	27	26	22	20	22	19	37	34	50	34	28
10													
11													
12													
13													
14													
15													
16													
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92													
93													
94													
95													
96													
97													
98													
99													
100													
MEAN	30.0	33.1	33.9	32.0	29.9	24.1	21.2	24.2	23.9	28.9	30.6	30.7	40.1
S. D.	1.513	1.031	1.271	1.110	1.578	2.062	1.986	1.764	2.667	1.841	1.131	1.354	1.989
TOTAL OBS.	279	254	277	270	279	270	277	279	270	317	370	310	3370

NOTES \* (BASED ON LESS THAN FULL MONTHS)

1210 WS FORM 0-88-5 (OLI)

(BASED ON LESS THAN FULL MONTHS AND 0.100 KNOTS)



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT: WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

7793  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JAN  
MONTH

0000-0200  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	3.9	2.3	1.0								7.3	7.0
NNE	.6	3.5	3.8	.9								8.8	6.8
NE	.5	3.4	1.2	.1								5.2	5.8
ENE	.1	1.6	.9	.4	.1							3.0	7.5
E	.4	7.3	7.6	1.2								16.5	7.2
ESE		5.4	3.8	2.0	.1							11.2	7.7
SE	.6	4.9	2.4	.2								8.2	6.1
SSE	.5	3.0	2.7	1.1								7.3	7.3
S	.5	2.2	3.8	4.8	1.0	.1						12.3	10.4
SSW	.1	.5	2.6	3.2	.7							7.1	11.1
SW		.5	1.3	.5	.2							2.6	9.3
WSW	.2	.6	.4	.1								1.3	6.1
W		.2										.2	4.0
WNW	.2	.1										.4	3.7
NW	.4	.2	.1									.7	4.8
NNW	.4	1.7	.2									1.6	4.9
VARBL													
CALM												6.2	
	4.6	38.4	33.0	15.4	2.2	.1						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 820



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

7 793  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JAN  
MONTH  
0300-0500  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	3.1	3.5	1.1								8.1	7.4
NNE		4.2	4.3	.4								8.9	6.9
NE	.8	2.7	1.2									4.7	5.4
ENE	.1	1.2	2.7	.1								4.1	7.1
E	.4	5.2	6.3	1.4	.1							13.4	7.3
ESE	.5	5.4	3.4	1.0								10.3	6.8
SE	.7	5.1	2.1	.4								8.2	5.9
SSE	1.2	4.7	2.2	.8								8.9	6.2
S	.7	2.8	4.3	4.2	.2	.1						12.4	9.2
SSW	.1	.5	2.2	3.3	.7	.1	.1					7.0	11.8
SW	.2	.2	.5	.1	.2	.1		.1				1.6	12.5
WSW	.1	.5	.1	.1								.8	6.3
W		.2	.1									.4	6.3
WNW	.1	.4										.5	4.5
NW	.2	.4										.6	4.4
NNW	.2	1.4	.4	.1								2.2	5.9
VARBL													
CALM												7.9	
	5.9	38.0	33.2	13.0	1.3	.4	.1	.1				100.0	6.9

TOTAL NUMBER OF OBSERVATIONS

828



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

7793 SEATTLE/TACOMA IAP, WA 73-81 JAN  
STATION STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
0600-0800  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	3.3	3.8	1.2	.1							8.7	7.5
NNE	.6	3.4	4.4	.7								9.2	7.0
NE	.5	2.2	.9	.1								3.7	5.8
ENE	.2	1.4	.9	.2								2.7	6.7
E	.7	4.9	5.3	2.0								12.9	7.5
ESE	.9	5.7	3.9	1.2								11.7	6.7
SE	.1	5.2	2.6	.7		.1						8.7	6.8
SSE	.7	3.8	3.0	1.1								8.6	7.1
S	1.2	2.8	4.1	4.2	.6							12.9	9.0
SSW	.2	1.4	.9	3.2	1.1							6.8	11.5
SW	.1	.5	1.1	.5	.1	.1	.1					2.6	10.8
WSW		.9	.4	.2								1.5	6.8
W		.1	.1									.2	7.0
WNW	.2	.1										.4	3.0
NW		.4										.4	4.7
NNW	.1	.5	.6	.2								1.5	7.6
VARBL													
CALM												7.5	
	6.0	36.5	31.9	15.7	2.0	.2	.1					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 813



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

7 793  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.4	3.4	1.2								7.7	7.7
NNE	.2	4.1	3.8	.2	.2							8.7	7.2
NE	.2	2.3	2.0	.4								4.9	6.9
ENE	.2	1.3	.7	.5	.1							2.9	7.5
E	.2	4.9	5.1	1.2								11.5	7.2
ESE	.2	3.9	2.6	2.0	.1							8.8	7.8
SE	.5	6.2	4.0	.1	.1							11.0	6.3
SSE		4.1	2.3	1.1	.4							7.9	7.6
S	1.1	4.9	3.2	2.3	.6							12.1	7.9
SSW	.2	1.1	1.8	3.9	1.3	.1						8.5	11.9
SW	.5	1.7	.7	1.1	.7	.2						5.0	9.9
WSW	.2	.7	.1									1.1	4.8
W	.4	.9	.1									1.3	4.4
WNW	.1	.2										.4	3.7
NW	.1	.4										.5	4.3
NNW	.2	.6	.6	.1								1.6	6.3
VARBL													
CALM												6.2	
	5.2	39.9	30.5	14.1	3.7	.4						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

820



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

717930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.3	4.6	1.8	.5							9.6	8.7
NNE	.4	2.0	4.4	1.3	.1							8.2	8.0
NE	.5	1.0	1.1	.4								2.9	6.8
ENE		.7	.4	.5								1.6	8.2
E		1.8	3.8	2.3	.2							8.2	9.1
ESE	.2	1.6	3.4	1.7	.1	.1						7.2	9.2
SE	.2	4.2	1.6	.5								6.5	6.4
SSE	1.0	3.3	1.8	.7	.1							7.0	6.5
S	1.0	4.8	3.2	2.3	.7							12.0	7.9
SSW	.2	3.3	4.0	4.6	2.3	.1						14.7	11.0
SW	.5	1.5	2.1	.9	.2	.2						5.4	9.3
WSW	.9	1.3	.2	.1								2.6	5.3
W	1.1	1.7	.1									2.9	4.3
WNW		1.5	.1	.1								1.7	5.1
NW	.2	2.0	.1	.1								2.4	5.3
NNW	.2	1.5	1.0	.1								2.8	6.0
VARBL													
CALM												4.4	
	6.8	34.3	32.0	17.6	4.4	.5						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

819



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

7-7930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER

1500-1700  
HOURS (L.S.T.)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	5.1	5.8	1.7	.4							13.1	7.8
NNE	.6	3.4	3.2	.5								7.6	6.6
NE	.1	2.2	.8	.4								3.5	6.3
ENE		1.3	.7	.6								2.7	7.5
E	.2	2.4	5.2	1.9								9.8	8.2
ESE	.1	1.5	3.0	2.1	.2							6.9	9.5
SE	.2	1.8	1.0	.1								3.2	6.1
SSE	.1	3.3	2.4	1.3								7.2	7.4
S	.7	4.9	4.4	3.2	.5							13.6	8.4
SSW	.2	2.2	1.3	4.5	2.3	.4						10.9	12.3
SW	.7	2.2	1.0	1.0	.1	.1						5.1	7.7
WSW	.4	.6	.6	.2								1.8	6.7
W	.5	1.1	.1	.1								1.8	4.8
WNW	.5	1.1										1.6	4.3
NW	.4	1.0	.2									1.6	5.2
NNW	.6	1.6	1.0	.5								3.6	6.2
VARBL													
CALM												5.9	
	5.6	35.6	30.8	18.1	3.5	.5						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

824



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

77930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	4.1	4.5	1.1								10.1	7.0
NNE	.2	5.3	4.2	1.6								11.3	7.0
NE	.1	2.0	2.2	.2								4.6	6.7
ENE	.1	.8	1.3	.5	.1							2.9	8.3
E	.5	3.4	5.8	2.4								12.0	8.2
ESE	.5	2.5	2.4	3.1								8.5	8.8
SE	.4	3.2	1.7	.2	.1							5.7	6.6
SSE	1.1	2.5	2.6	.8	.2							7.3	7.2
S	1.1	1.8	4.6	4.2	1.0							12.6	9.9
SSW	.4	.8	2.3	3.6	.5	.2						7.8	11.4
SW	.2	.8	1.2	1.1	.7							4.1	10.9
WSW	.2	.5	.2	.2								1.2	6.8
W	.2	.2	.4									.8	5.7
WNW	.1	.5										.6	4.0
NW	.5	.8	.1									1.4	4.3
NNW	.1	.7	.8									1.7	6.0
VARBL													
CALM												7.2	
	6.3	30.2	34.3	19.1	2.6	.2						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 831



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

7:7937  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	3.5	4.0	.8								8.8	7.2
NNE	.4	3.3	3.7	1.1								8.4	7.4
NE	.4	2.8	1.6	.2								4.9	6.0
ENE	.1	1.2	2.4	.7								4.5	7.7
E	.1	4.9	6.4	1.1								12.5	7.4
ESE	.4	4.1	3.7	2.7								10.9	8.0
SE	.6	6.0	2.3	.5								9.4	6.1
SSE	.7	3.1	2.1	1.4		.1						7.5	7.5
S	.4	2.5	4.6	3.5	.7							11.7	9.4
SSW	.4	1.1	1.6	3.6	1.4	.2						8.3	12.0
SW	.1	.5	.2	.6	.8							2.3	12.6
WSW		.4		.1								.5	6.8
W		.4										.4	4.3
WNW		.4		.1								.5	7.8
NW	.5	1.1	.2									1.8	4.7
NNW	.2	.8	.6									1.7	6.2
VARBL													
CALM												5.9	
	4.7	36.1	33.4	16.5	3.0	.4						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

829



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

77931  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	3.5	4.0	1.2	.1							9.2	7.6
NNE	.4	3.7	4.0	.8	.0							8.9	7.1
NE	.4	2.3	1.4	.2								4.3	6.2
ENE	.1	1.2	1.2	.4	.0							3.1	7.5
E	.3	4.4	5.7	1.7	.0							12.1	7.7
ESE	.3	3.8	3.3	2.0	.1	.0						9.4	7.9
SE	.4	4.6	2.2	.3	.0	.0						7.6	6.3
SSE	.7	3.5	2.4	1.1	.1	.0						7.7	7.1
S	.8	3.3	4.0	3.6	.7	.0						12.5	9.0
SSW	.2	1.4	2.1	3.7	1.3	.2	.0					8.9	11.6
SW	.3	1.0	1.0	.7	.4	.1	.0	.0				3.6	9.9
WSW	.3	.7	.3	.2								1.4	6.1
W	.3	.6	.1	.0								1.0	4.7
WNW	.2	.5	.0	.0								.7	4.7
NW	.3	.8	.1	.0								1.2	4.8
NNW	.3	1.0	.7	.1								2.1	6.1
VARBL													
CALM												6.4	
	5.7	36.1	32.4	16.2	2.8	.3	.0	.0				100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 6584



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ALL WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

73793  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.7	3.7	.3	.3							6.4	7.6
NNE	1.1	3.2	2.3	.1								6.6	5.8
NE	.3	1.9	.7	.4								3.2	6.3
ENE	.1	1.2	1.3	.1								2.8	6.9
E		5.2	6.1	.9								12.2	7.2
ESE	.3	4.9	5.3	1.1								11.5	7.1
SE	.4	5.4	2.9	.1								8.9	6.0
SSE	1.2	5.7	3.2	1.1								10.5	6.5
S	.3	3.8	5.3	5.4	.3		.3					15.4	9.7
SSW	.4	1.7	2.6	3.8	.5							9.1	10.0
SW		.7	1.5	.8		.3						3.2	9.9
WSW	.1	.1	.1	.1								.5	6.8
W	.1	.3	.3									.7	5.8
WNW	.3	.5	.1									.9	4.9
NW	.4	.3										.7	3.6
NNW		1.2										1.2	4.8
VA:PL													
CALM												6.4	
	5.3	37.1	35.4	14.3	1.1	.3	.3					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

755



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

77930 SEATTLE/TACOMA IAP, WA 73-81 FEB  
STATION STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
0300-0500  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.7	2.5	1.1								6.5	7.5
NNE	1.1	3.3	2.8									7.2	6.1
NE	.7	2.4	1.1									4.1	5.6
ENE		1.3	.9									2.3	6.7
E	.9	5.6	3.6	.7	.1							10.9	6.6
ESE	1.1	4.8	4.4	1.7								12.0	7.3
SE	.9	6.1	3.1	.4								10.5	6.0
SSE	.7	5.2	2.8	1.2								9.8	6.6
S	.7	3.5	6.9	5.4	.7	.1						17.3	9.7
SSW	.3	.8	2.0	3.2	.9	.3						7.4	11.8
SW		.4	1.2	.7								2.3	9.1
WSW		.1	.5	.1								.8	9.7
W	.3	.8	.3									1.3	4.9
WNW	.3	.4										.7	3.8
NW	.1	.4	.1									.7	5.0
NNW	.4	.7	.7									1.7	5.3
VARBL													
CALM												4.6	
	7.6	38.4	32.8	14.5	1.7	.4						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 753



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

7793  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

FEB  
MONTH

ALL WEATHER

CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	3.2	2.8	1.1	.1							8.2	7.0
NNE	.8	2.9	2.7	.1								6.6	6.1
NE	.4	1.7	1.1									3.2	5.4
ENE	.1	1.5	.7									2.3	5.7
E	.1	5.1	4.7	.1								10.0	6.6
ESE	.4	3.9	3.6	1.3	.1							9.4	7.5
SE	.7	5.9	3.2	.9								10.7	6.5
SSE	.8	5.0	4.4	1.1								11.2	6.8
S	.8	3.7	5.5	4.7	.7	.1						15.5	9.2
SSW	.3	1.3	2.9	4.3	.4	.1						9.4	11.1
SW	.4	.9	1.3	1.1	.4							4.1	9.6
WSW		.3	.3	.3								.8	9.8
W	.4	.3										.7	3.6
WNW	.1	.1	.1									.4	5.0
NW		.3										.3	4.5
NNW	.1	.9	.1									1.2	5.1
VARBL													
CALM												6.0	
	6.4	37.1	33.5	15.0	1.7	.3						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

747



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

779311  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	4.7	2.7	1.1	.1							8.1	7.2
NNE	.4	3.5	2.7	.3	.1							6.9	6.8
NE	.1	1.3	.9									2.4	6.0
ENE	.3	.8	1.1									2.1	6.9
E	.1	3.6	2.9	1.3								8.0	7.5
ESE	.3	2.1	3.5	.9								6.8	7.7
SE	.5	5.1	3.2	.7								9.4	6.6
SSE	.8	4.8	2.8	.8	.1							9.3	6.6
S	1.1	3.7	4.3	4.9	1.3							15.3	9.7
SSW	.7	2.7	3.2	5.2	1.6	.1						13.4	10.9
SW	.5	1.3	2.0	1.9	.5	.1						6.4	9.9
WSW	.1	.9	.7	.4								2.1	7.3
W	.1	1.1										1.2	5.0
WNW	.1	.3										.4	4.7
NW	.1	.5	.1									.8	5.3
NNW	.3	1.1	.7	.1								2.1	6.1
VARBL													
CALM												5.2	
	5.9	36.7	30.6	17.6	3.9	.3						100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 752



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

7 7930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.2	4.0	1.8								8.2	8.1
NNE	.4	1.8	1.3	.5								4.0	6.8
NE	.3	.9	.7									1.9	5.6
ENE	.1	.8	1.1	.3								2.3	6.9
E	.3	2.3	2.2	1.1								5.8	7.5
ESE	.3	1.9	2.4	1.8								6.3	8.4
SE	.3	1.9	2.3	.3	.1							4.9	7.1
SSE	.4	2.7	1.1	.7	.1							5.0	6.9
S	.4	3.9	3.9	4.9	1.1	.1						14.3	10.0
SSW	.7	2.6	3.2	5.9	1.6	.4						14.4	11.3
SW		1.9	1.9	3.4	1.8	.4						9.3	12.3
WSW	.4	2.3	1.9	1.1	.4	.1						6.2	8.4
W		4.3	.4									4.7	5.3
WNW	.1	1.2	.8									2.2	6.1
NW	.3	1.5	.7	.3								2.7	6.4
NNW	.5	1.5	1.3	.7								4.0	7.2
VARBL													
CALM												3.8	
	4.7	33.6	29.2	22.5	5.1	1.1						100.0	8.4

TOTAL NUMBER OF OBSERVATIONS

742



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.9	5.2	1.6								8.7	8.4
NNE	.3	.9	1.3	.3	.1							2.9	7.6
NE	.1	1.9	.4	.4								2.8	6.4
ENE	.1	.8	1.3	.5								2.8	7.6
E	.1	1.1	3.1	.9								5.2	8.6
ESE	.3	.8	2.9	1.1								5.1	8.5
SE	.3	2.4	1.6	.1								4.4	6.1
SSE	.3	2.5	1.3	.3								4.4	6.4
S	.1	3.6	4.4	5.3	.5							14.0	9.5
SSW	.4	2.5	3.5	5.2	2.0	.3						13.9	11.3
SW	.3	2.1	1.7	3.2	1.3	.3						9.0	11.0
WSW	.8	1.3	1.5	.9	.4							4.9	8.3
W	.8	2.3	.5	.1								3.7	5.1
WNW	.3	1.9	.3									2.4	5.2
NW	.3	1.6	1.3	.3								3.5	6.7
NNW	.9	2.4	2.0	1.3	.3							7.0	7.9
VARBL													
CALM												5.2	
	5.3	30.1	32.5	21.7	4.7	.5						100.0	8.2

TOTAL NUMBER OF OBSERVATIONS

748



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

707930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	3.9	6.3	1.9								12.4	7.8
NNE	.8	2.4	2.3	.3								5.8	6.3
NE		.9	1.2	.3								2.4	7.4
ENE	.4	.8	.8	.7								2.7	7.8
E	.1	2.8	3.9	1.2	.1							8.2	8.0
ESE		2.7	2.9	2.7								8.3	8.6
SE	.3	4.0	1.7	.4								6.4	6.4
SSE	.4	2.5	2.8	.7								6.4	7.1
S	.5	5.2	6.8	5.2	.1	.3						18.2	9.2
SSW	.1	1.5	2.5	3.1	1.3							8.6	11.3
SW	.1	1.3	1.7	1.1	.3							4.6	9.1
WSW		.7	.4	.3	.1							1.5	8.6
W	.3	.4	.3									.9	5.3
WNW	.5	.5	.1									1.2	4.3
NW	.3	.7	.1	.4								1.5	6.5
NNW	.5	2.9	1.1	.1								4.7	5.9
VARBL													
CALM												6.3	
	4.8	33.3	35.1	18.2	2.0	.3						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

757



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

727933 SEATTLE/TACOMA IAP, WA 73-81 FEB  
STATION STATION NAME YEARS MONTHS  
ALL WEATHER  
CLASS  
CONDITION  
2100-2300  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	3.1	4.6	.8								8.7	7.5
NNE	.7	4.2	3.2	.4								8.4	6.5
NE	.7	1.2	.9									2.8	5.3
ENE	.1	.9	1.1	.4								2.5	7.2
E	.7	4.7	4.8	1.1	.1							11.4	7.2
ESE	.5	4.7	3.6	1.6	.3	.1						10.9	7.8
SE	.7	4.6	2.9	.3								8.4	6.2
SSE	.8	5.0	2.5	1.2								9.5	6.8
S		2.7	6.7	5.8	.7	.1						16.0	10.1
SSW	.7	2.1	1.7	3.2	.9	.1						8.8	10.4
SW	.1	.7	.9	.5	.1							2.4	8.8
WSW	.5	.5	.8									1.9	5.8
W	.1	.7										.8	4.3
WNW		.4										.4	4.0
NW		.5	.1									.7	5.4
NNW	.3	.5	1.1	.3	.1							2.3	7.9
VARBL													
CALM												4.0	
	6.2	36.5	35.1	15.5	2.3	.4						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 746



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

77930 STATION SEATTLE/TACOMA IAP, WA 73-81 YEARS FEB MONTH  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.8	4.0	1.2	.1							8.4	7.7
NNE	.7	2.8	2.3	.3	.0							6.1	6.4
NE	.3	1.5	.9	.1								2.9	6.0
ENE	.2	1.0	1.0	.3								2.5	7.0
E	.3	3.8	3.9	.9	.1							9.0	7.3
ESE	.4	3.2	3.6	1.5	.1	.0						8.8	7.7
SE	.5	4.4	2.6	.4	.0							8.0	6.3
SSE	.7	4.1	2.6	.9	.0							8.3	6.7
S	.5	3.8	5.5	5.2	.7	.1	.0					15.7	9.6
SSW	.4	1.9	2.7	4.2	1.2	.2						10.6	11.0
SW	.2	1.2	1.5	1.6	.6	.1						5.1	10.5
WSW	.3	.8	.8	.4	.1	.0						2.3	8.1
W	.3	1.3	.2	.0								1.8	5.1
WNW	.2	.7	.2									1.1	5.1
NW	.2	.7	.3	.1								1.3	6.0
NNW	.4	1.4	.9	.3	.1							3.0	6.8
VARBL													
CALM												5.2	
	5.6	35.3	33.0	17.4	2.8	.4	.0					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 5990



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

77930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.5	3.3	.8								6.1	7.7
NNE	.5	5.2	4.8	1.0	.1							11.6	6.9
NE	.4	2.2	1.1	.1								3.8	6.0
ENE		1.0	.1	.1								1.2	6.0
E	.4	4.2	2.2	.5								7.3	6.4
ESE	.4	5.0	3.5	.7								9.6	6.8
SE	.1	5.2	2.8	.4								8.5	6.2
SSE	.6	5.3	4.0	1.2	.1							11.3	7.0
S	.4	4.4	7.6	3.8	.5							16.6	8.5
SSW		2.2	3.9	3.8	.4	.1						10.3	10.1
SW		.7	1.1	2.8	.6							5.2	11.9
WSW		.2	.5		.1							.8	8.6
W	.1	1.1	.1									1.3	4.9
WNW	.1											.1	3.0
NW	.1											.1	3.0
NNW	.2	.8	.2	.5								1.8	7.7
VARBL													
CALM												4.5	
	3.8	39.0	35.2	15.6	1.8	.1						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 826



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

707930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER

CLASS

CONDITION

0300-0500  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.4	2.5	.7	.1							6.4	7.2
NNE	.4	4.1	2.2	1.1	.4							8.1	7.3
NE	.4	1.6	1.4									3.4	6.0
ENE		.7	.6	.1								1.4	7.3
E	.8	4.1	1.6	.2								6.8	5.7
ESE	.5	3.9	2.3	.4								7.0	6.2
SE	.5	6.0	2.8	.5								9.9	6.0
SSE	.2	7.7	3.5	.6								12.1	6.1
S	.6	6.3	7.5	4.3	.5							19.2	8.5
SSW	.5	1.3	3.1	3.3	.6	.1						8.9	10.3
SW	.1	.2	2.3	2.4	.4							5.4	11.0
WSW	.1	.8	.4	.5	.1							1.9	8.3
W	.4	.6	.1									1.1	4.2
WNW	.2	.5										.7	4.0
NW	.1	.2				.1						.5	8.8
NNW	.5	.5	.2									1.2	5.1
VARBL													
CALM												5.9	
	6.0	41.1	30.6	14.1	2.1	.2						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

828



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727933  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.5	2.3	1.2								6.2	7.9
NNE	.1	3.7	3.3	1.0								8.1	7.2
NE	.2	2.4	.6									3.3	5.6
ENE		.7	.6	.1								1.4	7.5
E	.4	2.5	.7	.1								3.7	5.8
ESE	.4	3.9	1.9	1.1								7.2	6.9
SE	.4	6.9	3.1	.7								11.1	6.3
SSE	.8	6.2	3.1	.8								11.0	6.4
S	.8	8.8	7.0	3.7	.6							21.0	7.9
SSW	.2	1.7	3.3	3.1	1.2	.2						9.8	10.9
SW	.2	1.6	1.0	1.3	.6	.1						4.8	10.0
WSW	.4	.8	.2	.5								1.9	6.8
W	.1	1.0	.1									1.2	4.8
WNW	.1	.2										.4	4.0
NW		.2	.1	.1	.2							.7	11.7
NNW	.7	.2	.7									1.7	5.3
VARBL													
CALM												6.5	
	5.1	43.4	28.1	13.9	2.7	.4						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

629



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF Weather Service/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	2.7	4.6	2.7	.1							10.6	8.6
NNE	.6	3.3	2.8	1.9	.1							8.7	7.8
NE		.7	.4	.4								1.5	7.9
ENE	.1	.4	.4									.9	6.3
E	.2	1.7	.7	.2								2.9	6.2
ESE	.2	1.1	1.3	.4								3.0	7.2
SE	.5	3.5	2.2	.4								6.6	6.1
SSE	.2	3.8	3.2	.6	.1							7.9	6.9
S	.6	4.9	7.3	6.1	1.6	.1						20.5	9.7
SSW	.1	3.8	6.7	4.5	1.2							16.3	9.8
SW	.4	1.7	3.0	2.3	.7	.2						8.4	9.9
WSW	.2	1.0	.4	.7								2.3	8.0
W	.7	1.2	.4									2.3	4.9
WNW	.5	.7										1.2	4.4
NW	.5	.9			.2							1.6	6.5
NNW	.1	.5	.6		.1							1.3	7.8
VARBL													
CALM												4.0	
	5.6	31.7	33.9	20.2	4.3	.4						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

823



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

77933  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.5	3.5	3.8	.5							9.4	10.2
NNE		1.0	1.3	1.2								3.5	9.0
NE	.1	.7	.9	.2								2.0	7.1
ENE	.1	.2	.1									.5	5.8
E		1.2	1.2	.4		.1						2.9	8.2
ESE		.4	.6									1.0	7.5
SE	.2	1.3	1.0	.1								2.7	6.6
SSE	.2	2.1	.9	.7								3.9	7.2
S	.2	3.1	5.6	5.6	1.5	.5						16.5	10.7
SSW	.6	4.3	7.0	7.1	2.4	.1	.1					21.6	10.8
SW		2.1	3.9	3.2	.9	.1						10.1	10.2
WSW	.5	1.8	2.8	1.0	.4							6.5	8.0
W	.2	3.4	2.2									5.9	6.0
WNW		2.2	1.2									3.4	5.8
NW		1.5	1.5	.1	.2							3.3	7.6
NNW		2.2	1.6	1.0								4.8	8.1
VARBL													
CALM												2.0	
	2.4	29.0	35.3	24.4	5.9	.9	.1					100.0	9.1

TOTAL NUMBER OF OBSERVATIONS

818



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

7-793  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.3	2.7	3.9	.6							8.8	10.5
NNE		1.0	1.6	.5	.1							3.2	8.2
NE		.2	1.0	.6								1.8	9.9
ENE		.2	.4	.2								.9	8.4
E	.2	.7	1.2	.5								2.7	7.8
ESE		1.0	.6	.4								1.9	7.7
SE		1.5	1.0	.4								2.8	7.0
SSE	.4	1.2	1.3	1.0								3.9	8.2
S	.1	3.3	3.5	4.5	.2							11.7	9.5
SSW	1.0	3.3	6.7	6.6	1.9	.5	.1					20.1	10.7
SW	.1	1.9	5.2	3.3	1.5	.2	.2					12.5	10.9
WSW	.2	2.3	1.8	1.5	.5							6.3	8.7
W	.1	3.2	2.1	.4	.1							5.8	6.7
WNW		2.2	2.1									4.3	6.5
NW		1.7	1.8	.5								4.0	7.0
NNW	.1	.7	3.2	2.9	.5							7.4	10.2
VARBL													
CALM												1.8	
	2.6	25.8	36.2	27.0	5.5	.7	.4					100.0	9.2

TOTAL NUMBER OF OBSERVATIONS

821



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

77930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.8	7.7	4.3								14.8	9.0
NNE	.2	1.1	3.0	.4	.1							4.9	8.1
NE		1.2	1.0	.2								2.4	7.1
ENE		.2	1.1	.4								1.7	8.5
E	.2	1.6	1.3	.6								3.8	7.1
ESE		.9	1.6	.4	.1							2.9	8.0
SE		2.1	2.2	.1								4.4	6.8
SSE	.2	2.3	2.7	1.0	.1							6.3	7.5
S	1.0	6.0	3.9	3.4	.5	.2						15.0	8.5
SSW	.4	2.4	4.6	5.0	1.1	.2	.1					13.9	10.8
SW	.4	1.1	2.2	2.7	.1							6.5	9.9
WSW	.1	2.1	1.7	1.7								5.6	8.6
W	.2	1.7	.6	.4								2.9	6.6
WNW	.2	2.3	.1									2.7	4.9
NW	.5	1.1	1.0									2.6	5.6
NNW	.1	3.2	2.6	.4								6.2	6.6
VARBL													
CALM												3.4	
	3.7	32.1	37.3	20.9	2.1	.5	.1					100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 820



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

77937  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	3.0	4.2	1.2	.2							9.4	7.6
NNE	.2	2.1	6.9	.8								10.0	7.8
NE		1.9	.8	.4								3.1	6.7
ENE		.6	.7	.4								1.7	8.1
E	.1	1.9	2.2	.2								4.5	6.8
ESE	.1	2.4	3.4	.6								6.5	7.4
SE	.1	4.2	2.4	.5								7.3	6.4
SSE	.5	5.4	2.4	1.3								9.7	6.8
S	.2	3.9	5.9	4.1	.4							14.5	9.1
SSW	.7	2.3	4.5	4.4	1.0	.1						13.0	9.9
SW	.5	1.0	3.4	3.0	.1							8.0	9.8
WSW	.2	.4	.5	.6	.2							1.9	9.4
W	.5	1.2	.1									1.8	4.5
WNW	.2	.4										.6	4.0
NW	.2	1.2		.1								1.6	5.4
NNW	.1	1.0	.5	.2								1.8	6.5
VARBL													
CALM												4.5	
	4.6	32.9	38.0	17.9	1.9	.1						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

826



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

7-793- SEATTLE/TACOMA IAP, WA 73-81

STATION STATION NAME YEARS

ALL WEATHER

CLASS

CONDITION

HAR NORTH

ALL HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.2	3.9	2.3	.2							8.9	8.7
NNE	.3	2.7	3.2	1.0	.1							7.3	7.6
NE	.1	1.4	.9	.2								2.7	6.7
ENE	.0	.5	.5	.2								1.2	7.5
E	.3	2.3	1.4	.3		.0						4.3	6.6
ESE	.2	2.3	1.9	.5	.0							4.9	7.0
SE	.2	3.9	2.2	.4								6.7	6.3
SSE	.4	4.3	2.6	.9	.0							8.3	6.8
S	.5	5.1	6.1	4.4	.7	.1						16.9	9.0
SSW	.4	2.7	5.0	4.7	1.2	.2	.0					14.2	10.4
SW	.2	1.3	2.8	2.6	.6	.1	.0					7.6	10.4
WSW	.2	1.2	1.0	.8	.2							3.4	8.3
W	.3	1.7	.7	.1	.0							2.8	5.8
WNW	.2	1.1	.4									1.7	5.5
NW	.2	.8	.5	.1	.1	.0						1.8	6.9
NNW	.2	1.1	1.2	.6	.1							3.3	7.9
VARBL													
CALM												4.1	
	4.2	34.4	34.3	19.2	3.3	.4	.1					100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 6591



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

7.7930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.1	4.0									6.3	7.1
NNE	.1	4.5	4.0	.6								9.3	6.9
NE	.4	2.9	1.8	.1								5.2	6.3
ENE		.8	.1	.1								1.0	6.1
E		2.4	.8	.1								3.3	6.1
ESE	.6	3.9	1.8	.4								6.7	6.1
SE	.1	3.9	3.0	.6								7.7	6.9
SSE	.3	3.6	2.8	.5	.1							7.3	7.0
S	.6	7.9	9.8	2.8	.5							21.6	7.8
SSW	.4	2.4	5.9	3.4	.3	.3						12.6	9.5
SW	.1	1.8	1.0	.9	.1							3.9	8.1
WSW	.1	.8	.6	.1	.1							1.8	7.4
W	.3	1.5	.3									2.0	4.9
WNW	.1	.5	.1									.8	4.7
NW		.9										.9	4.7
NNW	.4	1.3										1.6	4.3
VARBL													
CALM												8.2	
	3.6	41.1	36.0	9.7	1.1	.3						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS

795



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

77930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.3	1.8	2.5	.6								5.2	7.2
NNE	.5	3.7	3.7	.4								8.2	6.6
NE		2.6	1.1									3.8	5.8
ENE	.1	.6	.3	.1								1.1	6.1
E	.8	3.7	.8	.1								5.3	5.1
ESE	.6	3.2	2.1	.1	.1							6.2	6.3
SE	.1	7.1	2.6	.1								10.0	6.1
SSE	1.0	5.2	4.8		.1							11.1	6.2
S	.8	6.8	7.6	4.3	.5							19.9	8.2
SSW		2.0	4.7	2.4	.4							9.5	9.4
SW		.6	1.9	.8	.1							3.4	9.3
WSW		.9	.1	.3								1.3	7.3
W	.3	.8	.3									1.3	4.9
WNW	.4	1.0										1.4	4.1
NW		.6										.6	4.8
NNW	.3	1.4	.4									2.0	5.1
VARBL													
CALM												9.8	
	5.0	41.9	32.8	9.2	1.3							100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

793



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

77935  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.5	3.0	.5								6.4	7.3
NNE	.3	2.9	3.6	.8								7.5	7.2
NE	.1	.9	1.0	.3	.1							2.4	8.0
ENE		1.3	.6	.3								2.1	6.8
E	.3	2.0	1.5	.3								4.0	6.2
ESE	.6	3.5	1.5	.3	.1							6.0	6.0
SE	.3	5.8	3.4									9.4	6.1
SSE	1.3	6.5	2.6	.9								11.3	6.1
S	.8	7.5	8.2	4.5	.6							21.6	8.4
SSW	.1	3.0	4.5	3.3	.3							11.2	9.0
SW	.3	1.8	1.0	1.3	.4							4.6	8.8
WSW	.1	.9	.1	.1								1.3	6.2
W	.9	.4	.1									1.4	4.0
WNW	.3	.8										1.0	4.1
NW		.8										.8	5.2
NNW	.4	2.0	.8									3.1	5.5
VARBL													
CALM												5.9	
	5.9	42.4	32.0	12.3	1.5							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

797



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

7.7930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.4	4.2	1.9	.1							7.7	8.8
NNE	.2	1.9	2.5	1.2								5.9	8.0
NE	.2	1.0	.9	.1								2.2	6.6
ENE	.1	.7	.5	.1								1.5	7.0
E	.2	.9	1.1	.4								2.6	7.3
ESE	.2	.9	.9	.2								2.2	6.7
SE		1.7	1.2	.4								3.4	6.7
SSE	.4	2.1	1.7	.2								4.5	6.6
S	.2	4.9	7.6	5.2	.4							18.3	9.0
SSW	.4	3.9	7.5	6.5	1.0							19.2	9.8
SW	.1	4.1	5.0	2.1	.1	.1						11.6	8.3
WSW	.4	2.2	1.2	.4	.1							4.4	6.7
W	.2	3.4	1.4									5.0	5.5
WNW	.2	1.9	.9	.1								3.1	5.6
NW	.2	.9	.6									1.7	5.6
NNW	.4	1.9	.7	.2								3.2	6.0
VARBL													
CALM												3.5	
	3.9	33.6	38.0	19.2	1.7	.1						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

803



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

APR  
MONTH

1200-1400  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED KNTS
N	.8	1.1	3.8	1.9								7.6	8.5
NNE	.3	1.3	1.8	.9	.1							4.3	8.2
NE	.1	.3	.6	.3								1.3	7.9
ENE	.1	.8	.4	.3								1.5	6.9
E		1.1	.3									1.4	6.0
ESE	.1	.4	.5	.3								1.3	7.4
SE	.1	.4	.5	.5								1.5	8.6
SSE	.3	1.3	.5	.3	.1							2.4	7.0
S	.5	2.4	5.7	3.8	1.0							13.4	9.7
SSW	.1	3.0	7.2	7.7	1.0	.1						19.2	10.3
SW	.1	2.5	4.3	4.0	.5							11.5	9.7
WSW	.1	3.0	3.8	1.4	.3							8.6	8.1
W	.4	2.9	4.2	.4								7.8	7.0
WNW	.1	1.8	3.4	.6								5.9	7.5
NW	.1	1.4	2.4	.3								4.2	7.6
NNW	.1	2.0	2.9	2.0								7.1	8.5
VARBL													
CALM												1.0	
	3.4	25.7	42.2	24.5	3.0	.1						100.0	8.7

TOTAL NUMBER OF OBSERVATIONS

791



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEAR

APR  
MONTH

ALL WEATHER  
CLAS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.1	4.3	2.8	.5							8.8	9.8
NNE		1.1	2.4	1.1								4.6	8.7
NE	.3	.8	.4	.3								1.6	6.2
ENE	.1	.3	.5									.9	6.6
E		1.1	1.0	.1								2.3	6.6
ESE		.6	.6	.3								1.5	7.8
SE	.1	.8	.8	.3								1.9	7.3
SSE	.3	.6	.5	.3								1.6	6.9
S		2.4	3.4	2.9	.8							9.4	9.8
SSW	.3	2.6	6.3	5.7	1.4	.3						16.5	10.7
SW	.5	1.9	4.9	5.3	.6	.1						13.3	10.0
WSW	.1	2.8	3.0	2.5	.3							8.7	8.8
W	.4	3.0	3.3	.3	.1							7.0	6.9
WNW	.1	1.4	3.0	.3								4.8	7.2
NW		1.8	3.6	.8								6.2	8.0
NNW	.1	1.3	3.8	3.9	.3							9.3	9.8
VARBL													
CALM												1.6	
	2.4	23.5	41.7	26.5	3.9	.4						100.0	8.9

TOTAL NUMBER OF OBSERVATIONS

796



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEAR

APR  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		3.1	8.2	3.4								14.7	8.6
NNE		1.4	3.8	1.5								6.7	8.4
NE		1.0	1.5	.4								2.9	8.0
ENE		1.1	.5									1.6	5.9
E		2.4	1.1									3.5	6.0
ESE		.9	1.4	.6								2.9	8.4
SE		.8	1.0	.4								2.1	7.6
SSE	.3	1.3	1.3	.6								3.4	7.7
S		3.3	4.9	1.4	.4							9.9	8.5
SSW		2.3	4.8	4.6	.4	.1						12.2	10.1
SW	.1	1.6	5.2	2.5	.3							9.7	9.3
WSW	.4	2.1	2.5	.9		.1						6.0	7.8
W	.3	3.4	.9	.3								4.8	5.7
WNW	.1	3.4	.5									4.0	5.3
NW	.1	1.9	1.3									3.3	5.8
NNW	.6	3.4	4.4	1.4	.1							10.1	7.3
VARBL													
CALM												2.3	
	2.0	33.3	43.1	18.0	1.1	.1						100.0	7.9

TOTAL NUMBER OF OBSERVATIONS

796



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

77937  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	2.7	6.3	1.0								10.6	7.6
NNE	.2	5.3	7.5	2.1								15.2	7.6
NE		2.2	1.7	.2								4.2	6.7
ENE		.9	.6									1.5	6.4
E	.1	2.4	2.1	.2								4.8	6.6
ESE		2.0	1.7	.4								4.1	7.1
SE	.2	1.6	1.6	.5								4.0	6.8
SSE	.2	2.2	2.0	.7								5.2	7.1
S		5.0	8.3	3.2	.4	.1						17.0	8.8
SSW	.5	2.7	5.5	3.1	.2							12.0	8.8
SW	.1	1.5	3.4	1.7								6.7	8.6
WSW	.2	.4	1.4	.9								2.9	8.7
W		.9										.9	5.1
WNW	.4	.9										1.2	4.1
NW		1.1	.4									1.5	5.4
NNW	.7	2.0	1.1	.1								4.0	5.8
VARBL													
CALM												4.2	
	3.4	33.8	43.6	14.3	.6	.1						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS

805



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

777930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.0	4.5	1.5	.1							8.4	8.2
NNE	.2	2.8	3.7	1.1	.0							7.7	7.6
NE	.1	1.5	1.1	.2	.0							2.9	6.8
ENE	.1	.8	.4	.1								1.4	6.5
E	.2	2.0	1.1	.2								3.4	6.1
ESE	.3	1.9	1.3	.3	.0							3.9	6.6
SE	.1	2.7	1.8	.3								5.0	6.6
SSE	.5	2.9	2.0	.4	.0							5.9	6.6
S	.4	5.0	6.9	3.5	.6	.0						16.4	8.6
SSW	.2	2.7	5.8	4.6	.6	.1						14.0	9.8
SW	.2	2.0	3.3	2.3	.3	.0						8.1	9.1
WSW	.2	1.6	1.6	.8	.1	.0						4.3	8.0
W	.3	2.0	1.3	.1	.0							3.8	6.1
WNW	.2	1.4	1.0	.1								2.8	6.1
NW	.1	1.2	1.0	.1								2.4	6.8
NNW	.4	1.9	1.8	1.0	.0							5.1	7.5
VARBL													
CALM												4.6	
	3.7	34.4	38.7	16.7	1.8	.2						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

6376



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	4.0	2.9	.1								7.3	6.6
NNE	.1	4.6	5.5	.5								10.7	7.2
NE	.2	2.3	2.9	.2								5.7	6.8
ENE		1.0	.5									1.5	6.0
E	.4	1.6	.4									2.3	5.0
ESE	.2	2.7	1.2									4.1	5.9
SE	.1	3.3	1.9									5.4	6.1
SSE	.4	6.0	3.5	.1								10.0	6.2
S	1.2	11.6	10.0	2.9								25.7	7.0
SSW	.5	3.4	4.1	1.6								9.6	7.6
SW	.4	2.2	3.2	1.5	.1							7.3	8.1
WSW	.2	.6	.6	.5								1.9	7.6
W	.1	.5										.6	4.2
WNW		.4										.4	4.7
NW	.2	.5										.7	4.2
NNW	.1	1.5	.2									1.8	4.8
VARBL													
CALM												5.0	
	4.5	46.0	37.0	7.4	.1							100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 822



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

77930

SEATTLE/TACOMA IAP, WA

73-81

MAY

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

0300-0500

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	3.9	.8	.1								5.3	5.4
NNE	.5	3.4	4.1	.1								8.1	6.8
NE		2.5	.5									3.0	5.6
ENE		1.0	.2									1.2	5.4
E	.5	2.1	.6									3.2	5.1
ESE	.7	5.3	1.0	.1								7.2	5.2
SE	.4	6.4	1.5									8.3	5.6
SSE	1.2	6.4	3.0	.2								10.9	5.8
S	.5	10.8	12.7	2.3								26.3	7.1
SSW	.7	3.6	3.8	1.8								10.0	7.5
SW	.4	2.3	.8	.6								4.1	6.7
WSW	.2	.8	.4									1.5	5.7
W		.4	.1									.5	6.0
WNW	.4	.2										.6	4.0
NW	.1	1.0										1.1	4.1
NNW	.5	.2										.7	3.7
VARBL													
CALM												8.0	
	6.6	50.5	29.6	5.3								100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

824



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

7 793  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.2	3.2	.7								6.8	7.1
NNE	.6	2.3	2.6	.1								5.7	6.2
NE	.5	1.1	1.1									2.7	6.0
ENE	.4	1.1										1.5	4.3
E	.6	1.4	.4									2.3	4.8
ESE	.2	2.2	1.6	.1								4.2	6.0
SE	.5	3.0	2.3									5.8	6.0
SSE	1.1	6.7	2.7	.4								10.9	5.7
S	.9	11.1	11.6	4.3	.2		.1					28.2	7.7
SSW	.6	3.3	5.3	3.2	.1							12.6	8.5
SW	.1	1.6	1.8	.5								4.1	7.3
WSW	.2	2.2	.2	.1								2.8	5.0
W	.6	1.0										1.6	3.9
WNW		.9										.9	4.7
NW	.1	.9	.1									1.1	5.0
NNW	.2	1.2	.2									1.7	5.1
VARBL													
CALM												7.2	
	7.4	42.2	33.3	9.5	.4		.1					100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

811



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

77930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.8	2.9	1.6								7.7	7.9
NNE	.1	1.9	1.6	.2								3.9	7.0
NE	.1	.5	.6	.1								1.3	7.1
ENE	.1	.7	.2									1.1	5.3
E	.1	.5	.1									.7	5.2
ESE	.4	.6	.5									1.5	5.4
SE		.7	1.1	.1								1.9	7.4
SSE	.1	3.0	2.1	.1								5.3	6.3
S	1.1	4.3	7.8	3.9	.5							17.5	8.5
SSW	.7	3.6	7.8	6.3	.5							19.0	9.4
SW	.1	2.7	6.2	3.0	.2	.1						12.4	9.1
WSW	.5	3.8	3.2	.7								8.1	6.7
W	.2	3.8	1.7	.1								5.8	6.0
WNW	.5	2.9	1.0									4.4	5.4
NW	.2	2.1	.6									2.9	5.5
NNW	.4	1.7	1.8									3.9	6.1
VARBL													
CALM												2.6	
	5.1	35.6	39.1	16.3	1.2	.1						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

823



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

77931  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.7	3.1	1.7								5.9	9.0
NNE		1.5	.9	.2								2.6	7.0
NE	.1	.2	.7	.4								1.5	8.6
ENE			.1									.1	9.0
E		.2										.2	5.5
ESE	.1	.1	.1									.4	6.0
SE	.1	.7	.2	.2								1.4	7.4
SSE		1.4	1.7	.6								3.7	7.5
S	.1	3.7	5.4	3.6	.4							13.1	9.2
SSW	.1	2.3	8.5	6.6	.6							18.2	10.1
SW		2.7	5.0	5.2	.1	.1						13.1	9.9
WSW	.1	2.8	4.5	2.6	.2							10.3	8.9
W		3.4	4.7	.5	.1							8.7	7.3
WNW	.1	3.3	4.1	.2								7.7	7.0
NW		2.5	2.9	.2								5.7	7.0
NNW		1.1	3.3	1.7								6.1	8.9
VARBL													
CALM												1.2	
	1.0	27.0	45.3	23.8	1.5	.1						100.0	8.7

TOTAL NUMBER OF OBSERVATIONS

819



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

7 793 SEATTLE/TACOMA IAP, WA 73-81 MAY  
STATION MONTH  
1500-1700  
HOURS (L.S.T.)  
ALL WEATHER  
CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.7	5.3	2.6	.1							9.7	9.3
NNE		.5	.4	.6								1.5	10.1
NE	.1	.1	.9	.1								1.2	8.4
ENE		.1	.2									.4	7.0
E	.1	.1	.2	.4								.9	9.1
ESE	.1		.5									.6	7.6
SE		.5	.7	.1								1.3	7.1
SSE	.2	1.2	1.6	.2								3.3	7.1
S	.4	2.9	5.2	1.8		.1						10.4	8.3
SSW	.2	2.4	6.2	6.8	.5	.1						16.3	10.3
SW	.4	1.8	6.3	4.6	.5							13.6	9.8
WSW	.1	3.5	4.1	1.9	.2							10.0	8.3
W	.4	4.3	4.9	.6								10.1	6.9
WNW	.2	2.7	3.0	.5								6.4	7.0
NW	.1	1.8	2.9	.6								5.5	7.8
NNW	.1	1.5	4.3	2.2								8.0	9.0
VARBL													
CALM												.9	
	2.6	25.2	46.8	23.1	1.3	.2						100.0	8.6

TOTAL NUMBER OF OBSERVATIONS 823



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFC WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.2	8.1	2.7								13.0	8.7
NNE	.1	.7	2.9	1.1	.1							5.0	8.9
NE		.6	.5	.1	.1							1.3	8.6
ENE		.4										.4	5.3
E		.9	.5									1.3	6.4
ESE		.7	.5	.2								1.5	7.3
SE		.7	1.5	.1								2.3	7.2
SSE	.2	1.0	.6	.4								2.2	7.1
S	.4	3.7	4.2	1.5								9.7	7.5
SSW	.4	2.6	4.8	4.5	.2							12.5	9.4
SW	.1	1.1	4.9	3.6	.6							10.3	10.2
WSW	.4	3.3	4.4	1.3	.1							9.6	7.8
W	.2	5.6	1.1	.1								7.1	5.4
WNW	.2	3.8	1.3									5.4	5.7
NW	.2	2.6	1.7	.2								4.8	6.6
NNW	.1	3.8	6.4	1.3								11.6	7.7
VARBL													
CALM												2.0	
	2.5	33.7	43.4	17.3	1.2							100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

816



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	5.1	6.9	.7								13.1	7.2
NNE		3.3	7.3	1.8								12.3	8.1
NE		1.1	1.5	.1								2.7	7.8
ENE	.1	.5	.5									1.1	6.6
E	.1	1.2	1.1									2.4	6.1
ESE		.7	.7	.2								1.7	7.1
SE	.1	1.7	.8									2.7	5.9
SSE	.1	3.5	2.3	.1								6.0	6.3
S	.7	5.8	6.0	1.3								13.9	7.1
SSW	1.0	3.9	6.4	3.1								14.4	8.1
SW	.8	3.1	4.6	3.1	.1							11.9	8.3
WSW	.5	1.6	1.2	.6								3.9	6.9
W	.2	1.3	.7									2.3	5.3
WNW	.5	1.0	.1									1.6	4.5
NW	.2	.8										1.1	4.4
NNW	.4	2.9	1.3									4.6	5.6
VARBL													
CALM												4.5	
	5.2	37.5	41.5	11.2	.1							100.0	6.9

TOTAL NUMBER OF OBSERVATIONS

827



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

77931 SEATTLE/TACOMA IAP, WA 73-81 MAY  
STATION STATION NAME YEARS MONTH  
ALL WEATHER ALL  
CLASS HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.9	4.2	1.3	.0							8.6	7.8
NNE	.2	2.3	3.2	.6	.0							6.2	7.5
NE	.1	1.1	1.1	.1	.0							2.4	7.0
ENE	.1	.6	.2									.9	5.6
E	.2	1.0	.4	.0								1.7	5.6
ESE	.2	1.6	.8	.1								2.6	5.9
SE	.2	2.1	1.3	.1								3.6	6.2
SSE	.4	3.6	2.2	.3								6.5	6.2
S	.7	6.7	7.9	2.7	.1	.0	.0					18.1	7.7
SSW	.5	3.2	5.9	4.3	.2	.0						14.1	9.1
SW	.3	2.2	4.1	2.8	.2	.0						9.6	9.1
WSW	.3	2.3	2.3	1.0	.1							6.0	7.7
W	.2	2.5	1.6	.2	.0							4.6	6.3
WNW	.2	1.9	1.2	.1								3.4	6.2
NW	.2	1.5	1.0	.1								2.9	6.5
NNW	.2	1.7	2.2	.7								4.8	7.4
VARBL													
CALM												3.9	
	4.3	37.2	39.5	14.2	.7	.1	.0					100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 6560



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	5.3	4.5	.5								10.9	6.3
NNE	.4	5.9	7.6	2.3								16.2	7.6
NE	.5	1.8	3.1	.5								5.9	7.4
ENE	.1	1.0	.4									1.5	5.8
E	.1	1.3		.1								1.5	5.2
ESE		1.1	.6									1.8	5.9
SE	.1	2.3	1.1	.1								3.6	6.1
SSE	.8	4.4	1.1	.1								6.4	5.6
S	.5	10.5	6.4	1.5								18.9	6.6
SSW	.5	4.5	6.0	2.4								13.4	7.9
SW	.3	2.4	3.6	1.3								7.5	8.0
WSW	.1	.8	.5									1.4	6.2
W	.6	1.3										1.9	3.9
WNW	.3	.6										.9	4.0
NW	.1	.9										1.0	4.0
NNW	.4	1.8	.4									2.5	5.1
VARBL													
CALM												4.8	
	5.4	45.6	35.5	8.8								100.0	6.5

TOTAL NUMBER OF OBSERVATIONS

798



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

727930  
STATIONSEATTLE/TACOMA IAP, WA  
STATION NAME73-81  
YEARSJUN  
MONTH0300-0500  
HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	5.3	1.9									7.8	5.6
NNE	.5	4.1	4.8	.5								9.9	6.7
NE	.1	3.1	2.6	.1								6.0	6.4
ENE		.5	.4	.1								1.0	6.6
E	.4	1.5	.5									2.4	5.1
ESE	.4	2.1	.3	.3								3.0	5.8
SE	.3	4.8	.8									5.8	5.3
SSE	.8	6.5	2.0	.4								9.6	5.7
S	1.6	11.9	7.4	1.0								21.9	6.4
SSW	.4	4.0	4.5	1.0								9.9	7.3
SW	.3	2.8	2.8	.9								6.6	7.1
WSW	.1	1.4	.1									1.6	5.2
W	.3	1.3	.1									1.6	4.4
WNW	.9	.9										1.8	3.9
NW	.1	.5										.6	4.2
NNW	.4	2.0		.1								2.5	4.9
VARBL													
CALM												8.0	
	7.0	52.6	28.0	4.4								100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 799



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

707930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.9	4.1	.9								9.0	6.7
NNE	.5	4.3	3.4	.9								9.2	6.9
NE		2.0	1.3									3.3	6.3
ENE	.1	.4	.1									.6	5.2
E	.5	2.2	.4		.1							3.2	5.4
ESE		.9	.5	.1								1.5	6.5
SE		3.2	.8									3.9	5.7
SSE	.4	6.1	2.2	.3								8.9	5.9
S	.5	10.8	10.6	2.2								24.0	7.0
SSW	.5	4.3	7.3	1.4								13.5	7.5
SW	.1	3.7	3.1	1.1								8.0	7.4
WSW	.5	2.8	.6									3.9	5.3
W	.5	1.7	.1									2.3	4.4
WNW	.3	.9										1.1	4.1
NW	.4	1.1										1.5	3.8
NNW	.6	.9	.1									1.7	4.2
VARBL													
CALM												4.2	
	6.1	48.2	34.5	6.9	.1							100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

786



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

77930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.9	4.6	1.0								7.8	8.1
NNE	.1	1.0	1.8	.6								3.5	8.3
NE		1.1	.4									1.5	5.7
ENE		.4										.4	5.3
E		.3										.3	4.5
ESE	.3	.5	.1	.1								1.0	5.9
SE	.5	.6	.6									1.8	5.4
SSE	.3	1.9	.8									2.9	5.5
S	.5	6.5	7.9	2.3	.1							17.3	7.4
SSW		4.9	9.9	4.5								19.3	8.5
SW		3.9	7.0	2.6								13.5	8.3
WSW	.3	5.0	2.6	1.0	.1							9.0	6.9
W	.8	5.4	1.9									8.0	5.5
WNW	.4	1.9	1.8									4.0	5.9
NW	.6	1.5	2.5									4.6	6.3
NNW	.8	.9	2.0	.3								3.9	6.7
VARBL													
CALM												1.3	
	4.6	37.6	43.9	12.4	.3							100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

798



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

77930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.6	4.4	2.3								8.3	9.1
NNE	.1	1.0	1.0	.3								2.4	7.2
NE		.4										.4	5.0
ENE													
E	.1	.5	.5									1.1	6.6
ESE	.1	.4	.4									.9	5.7
SE	.1	.5	.3									.9	5.6
SSE		.9	.9	.1								1.9	6.3
S	.3	3.0	5.4	2.5								11.2	8.6
SSW		3.4	8.0	4.0								15.4	9.0
SW	.8	2.5	7.5	6.0	.4							17.2	9.6
WSW	.1	3.9	5.0	1.1								10.2	7.3
W	.8	5.6	5.5	.3								12.2	6.5
WNW		1.9	2.8	.4								5.0	7.3
NW	.1	2.1	3.6	.4								6.3	7.5
NNW	.1	1.5	2.9	1.6								6.1	8.7
VARBL													
CALM												.6	
	2.6	29.2	48.2	18.9	.4							100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

797



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

737931 STATION SEATTLE/TACOMA IAP, WA 73-81 YEARS JUN  
STATION NAME MONTH  
ALL WEATHER CLASS 1500-1700  
CONDITON HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.6	5.1	2.6	.1							8.6	9.5
NNE	.1	1.1	2.1	.5								3.9	8.0
NE	.1	.1	.6	.1								1.0	7.8
ENE			.3	.1								.4	8.3
E	.1	.4	.1									.6	5.2
ESE	.1	.4	.1									.6	5.2
SE		.6	.5	.3								1.4	7.4
SSE		1.5	.6	.6								2.8	7.5
S	.3	2.3	4.9	1.5								8.9	8.2
SSW	.5	2.6	6.0	4.6	.4							14.1	9.4
SW	.4	2.6	6.8	5.8	.4							15.9	9.6
WSW	.1	3.5	4.5	1.6								9.8	7.7
W	.1	4.3	4.8	.6								9.8	6.9
WNW	.6	2.5	2.5	.3								5.9	6.6
NW	.1	2.6	3.4	.6								6.8	7.7
NNW		1.6	4.1	2.3	.1							8.1	9.0
VARBL													
CALM												1.5	
	2.8	26.8	46.4	21.5	1.0							100.0	8.3

TOTAL NUMBER OF OBSERVATIONS

799



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

77930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.3	8.9	3.5	.1							14.8	8.7
NNE		.4	3.4	2.2								5.9	10.1
NE		.9	1.0	.1								2.0	7.2
ENE		.1	.3									.4	6.3
E		.5	.3									.8	5.8
ESE	.1	.5										.6	4.6
SE	.1	.9	1.5									2.5	6.9
SSE	.3	2.4	.5	.4								3.5	6.0
S	.1	3.4	3.0	1.3	.3							8.1	7.5
SSW	.4	2.4	5.3	3.2								11.3	8.7
SW	.1	2.4	6.1	4.2	.4							13.2	9.5
WSW		2.5	2.9	2.0								7.5	8.4
W	1.1	3.3	1.9	.3								6.6	5.7
WNW	.1	3.9	1.6									5.7	5.8
NW	.1	3.4	1.3									4.8	5.8
NNW	.1	2.2	6.5	1.4								10.1	8.1
VARBL													
CALM												2.2	
	2.7	31.5	44.4	18.5	.8							100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

790



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

727930 SEATTLE/TACOMA IAP, WA 73-81 JUN  
STATION STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
2100-2300  
HOURS (L.S.T.)

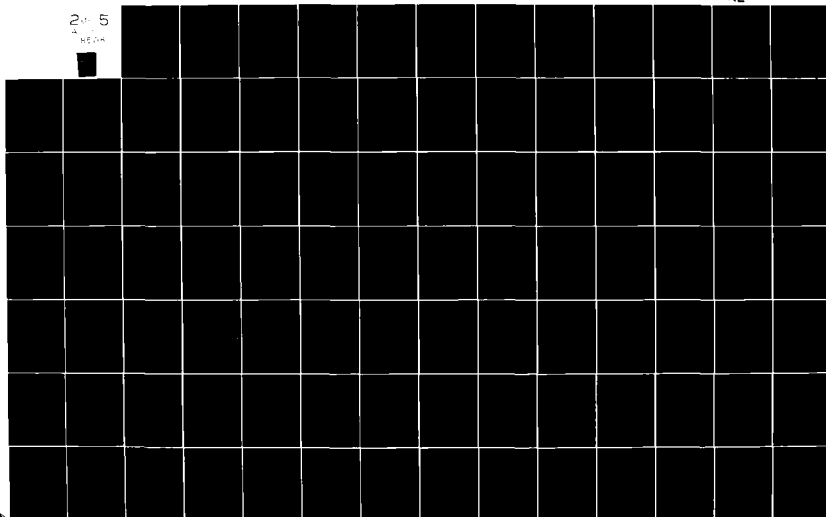
SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	4.8	10.8	1.3								17.0	7.6
NNE	.1	1.5	8.5	3.8								13.9	9.2
NE		1.1	2.0	.3								3.4	8.0
ENE		.5	.1									.6	5.2
E	.1	.1		.1								.4	6.3
ESE	.1	1.3	.5									1.9	5.4
SE		1.3	1.3									2.5	6.4
SSE	.1	2.9	.9	.1								4.0	5.9
S	.9	5.1	4.8	1.5								12.3	7.2
SSW	.3	3.6	9.0	7.9								16.8	8.6
SW	.3	3.1	3.3	1.5								8.1	7.8
WSW		2.0	1.9	.3	.1							4.3	7.2
W	.4	1.8	.1	.1								2.4	5.1
WNW		1.8	.1									1.9	4.7
NW	.4	2.3										2.6	4.5
NNW	.1	3.3	1.6									5.0	6.0
VARBL													
CALM												3.1	
	3.0	36.3	44.8	12.8	.1							100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 800



AD-A118 508 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
SEATTLE TACOMA IAP, WASHINGTON. REVISED UNIFORM SUMMARY OF SURF--ETC(1)  
JUN 82  
UNCLASSIFIED USAFETAC/DS-82/038 SBI-AD-F850 197 NL

2-5  
REF





2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

70793  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER

CLASS

ALL

MOON (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	3.1	5.5	1.5	.0							10.5	7.7
NNE	.2	2.4	4.1	1.4								8.1	8.0
NE	.1	1.3	1.4	.1								2.9	6.9
ENE	.0	.4	.2	.0								.6	6.0
E	.2	.8	.2	.0	.0							1.3	5.4
ESE	.1	.9	.3	.1								1.4	5.7
SE	.1	1.8	.8	.0								2.8	5.9
SSE	.3	3.3	1.1	.3								5.0	5.9
S	.6	6.7	6.3	1.7	.0							15.3	7.2
SSW	.3	3.7	7.0	3.1	.0							14.2	8.4
SW	.3	2.9	5.0	2.9	.1							11.3	8.7
WSW	.2	2.7	2.3	.8	.0							6.0	7.2
W	.6	3.1	1.8	.2								5.6	5.9
WNW	.3	1.8	1.1	.1								3.3	5.9
NW	.3	1.8	1.4	.1								3.5	6.4
NNW	.3	1.8	2.2	.7	.0							5.0	7.4
VARBL													
CALM												3.2	
	4.3	38.5	40.7	13.0	.3							100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

6367



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

7:793  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	5.3	4.9	.7								11.6	6.7
NNE		7.0	9.9	1.7								18.6	7.6
NE		1.8	2.7	.4								4.8	7.6
ENE	.1	.7										.8	4.4
E		.5		.1								.6	6.4
ESE	.1	.7	.4									1.2	6.1
SE	.2	1.0	1.0									2.2	6.1
SSE	.5	3.9	.5									4.8	5.0
S	1.0	9.5	6.4	.4								17.2	6.2
SSW	1.0	4.7	5.4	1.0								12.0	6.7
SW	.4	4.8	2.4	.5								8.1	6.4
WSW	.6	2.4	.7									3.7	5.1
W	.8	1.9	.1									2.9	4.2
WNW	.5	.8	.1									1.4	4.2
NW	.2	.8										1.1	4.0
NNW	.2	2.2	.2									2.7	4.8
VARBL													
CALM												6.3	
	6.3	48.1	34.7	4.7								100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 830



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

707930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	4.7	2.4	.1								7.9	6.1
NNE	.4	6.3	5.1	.7								12.5	6.6
NE	.4	2.4	1.3	.1								4.3	6.1
ENE		.5	.1									.6	5.4
E		1.2										1.2	4.9
ESE	.1	2.2	.5									2.8	5.3
SE	.2	2.9	1.2									4.4	5.8
SSE	1.1	5.2	1.1									7.4	5.0
S	1.9	11.5	4.6	.4								18.5	5.6
SSW	.9	6.3	3.2	.7								11.1	6.3
SW	.6	3.4	2.6	.1								6.7	6.0
WSW	.6	1.0	.2									1.8	4.6
W	.6	1.8										2.4	4.0
WNW	.6	1.2										1.8	4.3
NW	.5	1.1										1.6	4.1
NNW	.4	1.9	.2									2.6	4.7
VARBL													
CALM												12.5	
	8.9	53.8	22.6	2.2								100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

823



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

727937  
STATIONSEATTLE/TACOMA IAP, WA  
STATION NAME73-81  
YEARSJUL  
MONTHALL WEATHER  
CLASS0600-0900  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	4.5	2.9	.7								8.4	6.8
NNE	.2	4.1	6.1	.7								11.2	7.0
NE	.1	1.6	1.2	.1								3.0	6.1
ENE	.4	1.0	.1									1.5	4.9
E	.4	.6										1.0	4.1
ESE	.4	1.6	.4									2.3	4.9
SE	.6	2.8	1.7									5.1	5.5
SSE	.4	4.3	1.8									6.4	5.7
S	.7	10.9	7.5	.6								19.8	6.2
SSW	1.7	7.7	5.1	.7								15.2	6.3
SW	.6	4.5	3.2	.2								8.5	6.2
WSW	.5	2.8	.9									4.1	5.3
W	.9	1.9										2.8	4.0
WNW	.9	1.5										2.3	4.1
NW		1.3	.2									1.6	5.2
NNW	.4	.7	.1									1.2	4.3
VARBL													
CALM												5.5	
	8.3	51.8	31.3	3.2								100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

822



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

727931  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	2.6	5.3	1.0								9.4	7.4
NNE	.1	1.7	2.9	.2								5.0	7.3
NE		.7	.6	.1								1.5	6.8
ENE		.2										.2	5.5
E		.2	.1									.4	5.7
ESE		.5	.2									.7	6.0
SE		1.0										1.0	4.8
SSE	.4	.7	1.1									2.2	5.9
S	.5	5.6	5.0	.6								12.5	6.9
SSW	.9	4.7	7.8	2.3	.1							15.8	7.6
SW	.5	5.0	6.8	1.8	.1							14.2	7.6
WSW	.6	6.0	2.4	.5								9.5	6.0
W	1.0	8.0	2.9	.1								12.0	5.7
WNW	.1	2.9	2.4									5.5	6.0
NW	.2	2.9	1.2	.1								4.5	6.2
NNW	.1	1.3	1.8									3.3	6.4
VARBL													
CALM												2.4	
	4.9	44.1	41.6	6.8	.2							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 823



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.0	5.0	2.2								8.2	9.2
NNE		.7	1.0	.2								2.0	7.4
NE	.1		.6									.7	7.7
ENE			.1									.1	9.0
E		.1	.1									.2	7.0
ESE		.2										.2	5.0
SE		.4	.1									.5	6.0
SSE		.9	.9									1.7	7.2
S	.1	3.2	4.1	1.3								8.8	7.6
SSW	.4	3.8	5.1	3.2								12.4	8.4
SW		3.8	5.7	1.8	.1							11.5	8.2
WSW	.1	3.3	6.5	.2								10.1	7.4
W	.5	6.8	9.1	.7								17.2	6.9
WNW		3.3	6.2	.7								10.2	7.5
NW		2.6	4.0	.6								7.2	7.4
NNW	.1	2.3	4.5	1.3								8.3	8.0
VARBL													
CALM												.6	
	1.3	32.3	53.2	12.4	.1							100.0	7.7

TOTAL NUMBER OF OBSERVATIONS

820



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

77933

SEATTLE/TACOMA IAP, WA

73-81

JUL

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1500-1700

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.5	7.0	2.1								10.5	8.7
NNE		1.0	.7	.2								2.0	7.6
NE		.4	.5									.9	7.3
ENE		.2										.2	5.5
E		.1										.1	5.0
ESE			.2									.2	8.0
SE			.1	.1								.2	9.0
SSE	.2	.7	.6	.1								1.7	6.9
S		2.1	3.5	.7								6.3	7.8
SSW		3.2	3.8	2.3								9.3	8.4
SW	.2	3.1	5.6	2.9								11.8	8.5
WSW	.1	4.0	6.8	1.1	.1							12.2	7.4
W	.4	5.9	8.1	.4								14.7	6.9
WNW		3.9	5.5	1.0								10.4	7.4
NW	.1	3.3	4.0	.9								8.3	7.4
NNW		1.8	5.7	2.8								10.4	9.1
VARBL													
CALM												.7	
	1.1	31.1	52.3	14.7	.1							100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

819



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

707930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		3.4	10.8	1.5								15.6	8.0
NNE		1.6	2.2	.7								4.5	8.0
NE		.1	.6	.2								1.0	9.1
ENE													
E		.2	.2									.5	6.8
ESE		.2	.1									.4	7.0
SE	.1	.2	.5									.8	6.9
SSE		1.1	.4									1.5	5.8
S	.1	3.8	2.2	.2								6.3	6.2
SSW	.5	3.5	4.1	1.0								9.1	7.2
SW	.1	3.9	6.4	1.1								11.5	7.7
WSW	.2	4.6	3.4	.5								8.7	6.6
W	1.5	5.9	2.2									9.6	5.2
WNW		5.2	1.5									6.7	5.5
NW	.2	3.6	1.2	.2								5.3	5.6
NNW		4.7	11.4	1.6								17.7	7.8
VARBL													
CALM												1.0	
	2.8	42.1	47.1	7.0								100.0	6.9

TOTAL NUMBER OF OBSERVATIONS

826



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727937  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	7.0	11.3	1.2								19.7	7.2
NNE		3.2	8.9	2.8								14.8	8.6
NE		.7	1.7	.6								3.0	8.5
ENE		.2	.1									.4	5.7
E		.5										.5	5.0
ESE		.4	.2									.6	6.2
SE	.2	.9	.2									1.3	5.5
SSE		1.7	.5									2.2	5.4
S	.2	6.3	2.7	.1								9.4	5.9
SSW	.4	5.2	4.9	1.0								11.4	7.0
SW	1.0	4.3	3.2	.4								8.7	6.3
WSW	.7	4.0	1.5									6.2	5.6
W	2.3	2.8	.2									5.3	4.0
WNW	1.1	2.1										3.2	4.0
NW	.7	2.8	.1									3.6	4.7
NNW	.5	4.4	1.8									6.7	5.5
VARBL													
CALM												2.9	
	7.3	46.4	37.3	6.1								100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

823



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	3.9	6.2	1.2								11.4	7.5
NNE	.1	3.2	4.6	.9								8.8	7.6
NE	.1	1.0	1.2	.2								2.4	7.2
ENE	.1	.4	.1									.5	5.2
E	.0	.4	.1	.0								.6	5.3
ESE	.1	.7	.3									1.1	5.6
SE	.2	1.1	.6	.0								1.9	5.8
SSE	.3	2.3	.9	.0								3.5	5.6
S	.6	6.6	4.6	.5								12.4	6.4
SSW	.7	4.9	4.9	1.5	.0							12.0	7.2
SW	.4	4.1	4.5	1.1	.0							10.1	7.3
WSW	.4	3.5	2.8	.3	.0							7.0	6.4
W	1.0	4.4	2.8	.2								8.4	5.9
WNW	.4	2.6	2.0	.2								5.2	6.2
NW	.3	2.3	1.4	.2								4.1	6.3
NNW	.2	2.4	3.2	.7								6.6	7.3
VARBL													
CALM												4.0	
	5.1	43.7	40.0	7.1	.1							100.0	6.5

TOTAL NUMBER OF OBSERVATIONS

6586



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

77931 SEATTLE/TACOMA IAP, WA 73-81 AUG  
STATION STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
0000-0200  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	4.9	3.6	.2								9.1	6.5
NNE	.6	4.3	5.2	1.7	.1							11.9	7.4
NE		1.9	1.9	.4								4.3	7.1
ENE	.6	.5										1.1	3.8
E	.1	.9	.1									1.1	4.7
ESE	.5	1.0	.6									2.1	5.2
SE	.2	1.3	1.5	.1								3.2	6.2
SSE	1.2	3.2	1.6	.1								6.1	5.6
S	1.2	11.3	5.7	1.1								19.3	6.2
SSW	1.3	7.2	5.6	.4								14.5	6.1
SW	.5	3.9	1.1	.2								5.7	5.8
WSW	.9	1.7	.2									2.8	4.6
W	.9	2.4										3.3	4.0
WNW	.5	1.1										1.6	4.1
NW	.6	1.0	.1									1.7	4.5
NNW	.9	1.1										1.9	4.1
VARBL													
CALM												10.3	
	10.3	47.6	27.4	4.3	.1							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 822



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

707930 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	4.2	1.9									7.4	5.6
NNE	.8	4.1	2.8	.7								8.5	6.6
NE		1.9	.5									2.4	5.8
ENE		.7										.7	5.2
E	.5	.8	.1									1.5	4.4
ESE	.4	1.9	1.3									3.6	5.9
SE	.6	2.8	1.3									4.7	5.5
SSE	1.5	4.6	1.7									7.7	5.2
S	1.7	12.8	6.2	1.6								22.2	6.2
SSW	1.5	5.2	4.4	.5								11.5	6.2
SW	.5	3.7	1.3	.1								5.7	5.6
WSW	.6	1.3	.2									2.2	4.4
W	1.5	1.1	.1									2.7	3.8
WNW	.6	1.0	.1									1.7	4.0
NW	.6	1.0										1.6	3.8
NNW	.2	1.6										1.8	4.4
VARBL													
CALM												14.1	
	12.1	48.9	22.0	2.9								100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 827



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

77931  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	3.3	2.4									6.2	5.8
NNE	.1	5.1	4.6	.1								9.9	6.6
NE	.2	1.4	1.0									2.6	5.9
ENE	.2	.5	.1									.9	4.7
E	.1	1.2	.1									1.5	5.0
ESE	.6	2.0	.9	.1								3.6	5.5
SE	.5	4.0	1.5									5.9	5.6
SSE	1.7	5.7	3.1									10.5	5.4
S	1.9	11.3	8.0	.5								21.7	6.2
SSW	.9	6.7	4.1	1.0	.1							12.7	6.7
SW	.2	3.5	2.6	.2								6.6	6.6
WSW	.6	2.1	.7	.1								3.6	5.3
W	.5	2.5	.1									3.1	4.1
WNW	.5	1.5										2.0	4.5
NW	.5	.6										1.1	3.8
NNW	.5	1.0	.2	.2								2.0	5.9
VARBL													
CALM												6.2	
	9.7	52.2	29.5	2.4	.1							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

808



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

707930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.8	3.9	1.3								8.0	8.1
NNE	.1	1.9	2.2									4.3	6.7
NE		1.3	.7	.1								2.2	6.0
ENE		.5										.5	5.0
E		.5	.1									.6	5.8
ESE		.4	.4									.7	6.3
SE		1.1	.9									1.9	6.3
SSE		2.8	1.6									4.4	6.2
S	.6	6.1	6.6	1.6								14.8	7.1
SSW	.7	6.9	7.3	1.8								16.8	7.2
SW	.4	6.1	4.5	.9								11.8	6.8
WSW	.6	5.4	2.1	.5								8.5	6.2
W	.6	6.7	2.2									9.5	5.7
WNW	.2	4.0	1.8									6.1	5.7
NW	.4	1.9	1.3	.2								3.9	6.1
NNW	.1	1.6	1.7									3.4	6.5
VARBL													
CALM												2.6	
	3.8	50.0	37.2	6.4								100.0	6.5

TOTAL NUMBER OF OBSERVATIONS

822



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72793C  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.0	4.0	2.0								7.1	9.1
NNE		.6	1.6	.5								2.7	6.5
NE	.1	.5										.6	4.8
ENE													
E	.2	.2	.1									.6	5.0
ESE	.1	.1										.2	3.5
SE	.2	.6	.7	.1								1.7	6.5
SSE	.2	.7	.6									1.6	5.9
S	.1	4.4	5.6	1.0	.1							11.2	7.3
SSW	.7	4.3	6.3	2.9	.4							14.6	8.3
SW	.4	3.9	5.9	1.7								11.8	7.9
WSW	.1	4.5	5.2	.6								10.5	7.0
W	.4	5.9	9.0	.2								15.5	6.8
WNW	.4	4.0	6.1	.9								11.3	7.5
NW	.1	2.0	3.7	.1								5.9	7.1
NNW		.9	2.1	.5								3.4	8.4
VARBL													
CALM												1.2	
	3.3	33.5	51.0	10.5	.5							100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 820



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

727930

SEATTLE/TACOMA IAP, WA

73-81

AUG

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

1500-1700

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	2.2	6.9	2.7								12.0	8.6
NNE		1.0	1.3	.1								2.4	6.8
NE	.1	.4	.2									.7	5.8
ENE	.1	.2										.4	3.7
E	.1	.4	.1									.6	4.6
ESE			.2									.2	7.5
SE	.1	.6	.4	.1								1.2	6.2
SSE	.1	1.1	.5	.1								1.8	6.9
S	.2	3.3	3.6	1.3	.2							8.8	7.8
SSW	.2	2.9	4.4	2.3	.1							10.0	8.6
SW	.1	4.4	6.0	1.3	.2	.1						12.2	7.9
WSW	.5	4.9	5.1	1.1								11.6	7.1
W	.5	6.9	6.1									13.5	6.3
WNW	.5	3.6	4.4	.5								9.0	7.0
NW		1.8	1.9	.1								3.9	6.8
NNW	.1	2.1	5.0	3.3								10.5	9.0
VARBL													
CALM												1.2	
	3.0	35.8	46.2	13.0	.6	.1						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

822



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

77930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	3.0	12.2	1.7								17.2	8.1
NNE	.4	.9	1.6	.7								3.5	7.6
NE	.1	.5	.4									1.0	5.9
ENE	.1	.1										.2	3.5
E		.4	.1									.5	6.0
ESE		.9	.2									1.1	5.4
SE	.2	1.8	.7									2.8	5.2
SSE	.2	1.7	1.2	.1								3.3	5.9
S	.4	4.9	2.3	.7								8.3	6.4
SSW	1.0	3.2	3.0	.9	.1	.1						8.3	7.3
SW	.7	3.4	4.1	1.0	.1							9.4	7.6
WSW	.5	4.0	3.0	.6								8.2	6.6
W	1.7	5.6	1.0	.4								8.7	5.1
WNW	.6	5.6	1.2									7.4	5.3
NW	.2	4.0	1.7	.1								6.1	5.7
NNW	.6	3.7	5.7	.5								10.5	7.2
VARBL													
CALM												3.5	
	7.1	43.7	38.7	6.7	.2	.1						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS

820



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

707930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	6.3	8.6	.7								16.1	7.0
NNE	.2	3.8	5.4	2.8								12.2	8.2
NE	.1	1.2	.8	.2								2.4	6.9
ENE	.4	.5		.1								1.0	5.3
E	.4	.7										1.1	4.0
ESE	.1	.4	.7									1.2	6.8
SE	.1	1.5	.7	.1								2.4	6.2
SSE	.7	2.3	1.0									4.0	5.3
S	1.5	8.7	4.0	1.0								15.1	5.9
SSW	.8	4.5	5.6	1.2								12.1	7.3
SW	.7	3.1	2.9	.6								7.4	6.7
WSW	.8	2.2	1.2	.1								4.4	5.7
W	1.1	3.1	.1									4.4	4.4
WNW	.5	2.1	.2									2.8	4.5
NW	.5	3.0										3.5	4.6
NNW	.1	2.7	.8									3.6	5.9
VARBL													
CALM												6.3	
	8.6	46.0	32.2	6.9								100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 826



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	3.5	5.5	1.1								10.4	7.5
NNE	.3	2.7	3.1	.8	.0							6.9	7.3
NE	.1	1.1	.7	.1								2.0	6.3
ENE	.2	.4	.0	.0								.6	4.6
E	.2	.6	.1									.9	4.8
ESE	.2	.8	.5	.0								1.6	5.7
SE	.3	1.7	1.0	.1								3.0	5.8
SSE	.7	2.8	1.4	.0								4.9	5.6
S	.9	7.8	5.3	1.1	.0							15.2	6.5
SSW	.9	5.1	5.1	1.4	.1	.0						12.6	7.2
SW	.4	4.0	3.5	.8	.0	.0						8.8	7.0
WSW	.6	3.3	2.2	.4								6.5	6.4
W	.9	4.3	2.3	.1								7.6	5.7
WNW	.5	2.9	1.7	.2								5.2	6.1
NW	.4	1.9	1.1	.1								3.5	5.8
NNW	.3	1.8	1.9	.6								4.6	7.3
VARBL													
CALM												5.7	
	7.2	44.7	35.5	6.6	.2	.0						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 6567



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

777930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	5.6	4.1	1.1								11.1	6.9
NNE	.6	5.9	6.5	1.9								14.9	7.2
NE	.3	3.3	2.8									6.3	6.3
ENE	.1	1.0	.5									1.6	6.2
E	1.3	2.6	.8									4.6	4.9
ESE	.6	3.5	1.1									5.3	5.5
SE	.4	3.9	2.4									6.6	5.9
SSE	.5	5.4	1.9									7.8	5.5
S	1.9	6.6	6.0	1.4								15.9	6.6
SSW	.8	2.6	2.9	1.0								7.3	7.2
SW	.4	1.9	1.6									3.9	6.1
WSW	.4	.3	.5									1.1	5.4
W	.1	.8										.9	4.7
WNW	.1	.9										1.0	4.1
NW	.8	.9										1.6	3.9
NNW	.1	.8	.4									1.3	5.4
VARBL													
CALM												8.9	
	8.5	45.8	31.4	5.4								100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

799



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER

CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	5.3	2.9	1.3								10.4	6.5
NNE	1.0	4.9	5.4	1.4								12.7	7.1
NE	.6	2.6	1.5	.3								5.0	6.3
ENE	.3	.8										1.0	4.6
E	.6	2.3	.9									3.8	5.1
ESE	.3	3.5	1.0	.1								4.9	5.6
SE	.9	6.4	2.3									9.6	5.4
SSE	1.1	5.3	2.3									8.7	5.5
S	.9	9.4	6.0	.9	.1							17.4	6.6
SSW	.5	1.1	1.6	.5								3.8	7.5
SW	.1	.9	.9	.1								2.0	6.8
WSW		.4	.5									.9	6.4
W	.4	1.0										1.4	3.9
WNW	.1	1.1										1.3	4.2
NW	.1	1.3	.1									1.5	4.8
NNW	.5	1.6	.1									2.3	4.7
VARBL													
CALM												13.5	
	8.4	47.9	25.5	4.5	.1							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

795



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

777937  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	5.6	5.4	1.4								13.2	7.2
NNE	.3	4.7	5.1	1.3								11.3	7.3
NE	.4	2.9	.9									4.2	5.4
ENE		.6	.5	.3								1.4	7.1
E	.9	1.8	1.1									3.8	5.5
ESE	.4	3.3	1.3	.1								5.1	5.7
SE	.6	4.7	2.9	.1								8.4	6.0
SSE	1.1	7.1	3.1	.1								11.5	5.6
S	.8	8.4	6.4	1.3								16.8	6.8
SSW	.4	2.7	1.7	.8								5.5	7.0
SW	.4	1.4	.5	.1								2.4	5.7
WSW	.1	.5										.6	4.0
W	.6	.6	.1									1.4	4.3
WNW	.3	.6	.1									1.0	4.5
NW	.4	.9										1.3	4.3
NNW	.9	1.4	.4									2.7	4.7
VARBL													
CALM												9.3	
	8.4	47.4	29.4	5.5								100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 785



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

77930

SEATTLE/TACOMA IAP, WA

73-81

SEP

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

0900-1100

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	4.8	10.3	4.3	.3							19.9	8.4
NNE	.1	2.5	3.8	.5								6.9	7.2
NE	.1	1.1	.6	.1								2.0	6.4
ENE	.4	.5	.1									1.0	4.3
E	.1	1.5	.3									1.9	5.0
ESE	.3	1.5	1.0	.4								3.1	7.0
SE	.4	1.3	1.4									3.0	6.0
SSE	.1	2.5	2.4	.3								5.3	6.8
S	.4	5.1	9.0	2.0								16.5	7.5
SSW	.5	3.9	4.6	1.8	.1							10.9	7.7
SW	.3	3.0	3.0	1.0								7.3	7.2
WSW	1.0	2.3	1.3	.1								4.6	5.4
W	.4	3.0	1.3									4.6	5.4
WNW	.1	2.4	1.0									3.5	5.9
NW		1.6	.5									2.1	5.8
NNW	.9	1.3	1.1	.1								3.4	6.0
VARBL													
CALM												4.0	
	5.4	38.2	41.6	10.5	.4							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

799



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

70793  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.3	7.6	5.8								15.9	9.6
NNE	.1	1.5	2.9	1.4								5.9	8.5
NE	.1	.8	.4									1.3	6.2
ENE		.4										.4	5.0
E		.6	.3	.1								1.0	6.3
ESE	.1		.1									.3	6.0
SE		.5	.8									1.3	7.4
SSE	.3	.6	.9	.3								2.0	7.3
S		4.0	5.5	2.4	.3							12.2	8.4
SSW		3.2	4.3	2.9	.4							10.7	8.8
SW	.4	2.4	4.9	2.5								10.2	8.4
WSW	.1	3.5	3.9	1.4	.1							9.1	7.5
W	.3	6.1	2.9	.1								9.3	6.0
WNW	.4	2.4	3.8									6.6	6.8
NW		1.6	3.4	.1								5.2	7.4
NNW	.4	1.6	3.3	1.4								6.7	8.1
VARBL													
CALM												2.0	
	2.4	31.5	44.9	18.4	.8							100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 793



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

77937  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.1	7.3	5.5								14.9	9.7
NNE	.1	1.5	1.6	1.1								4.4	8.0
NE	.1	.9	.6	.1								1.8	6.6
ENE			.4									.4	8.7
E	.5	.9	.4	.1								1.9	5.6
ESE		.3	.6	.1								1.0	7.4
SE	.1	1.0	1.4	.1								2.6	7.0
SSE		1.0	1.5	.5								3.0	7.5
S	.4	6.0	2.5	1.3								10.2	6.8
SSW		2.9	5.0	2.8								10.7	8.7
SW		4.1	3.5	2.1								9.8	7.9
WSW	.1	2.4	2.3	.5								5.3	7.0
W	.6	4.9	1.9									7.4	5.6
WNW	.6	4.6	2.6	.5	.1							8.5	6.4
NW		2.1	2.1	.4								4.6	7.2
NNW		2.1	6.8	3.0								11.9	8.9
VARBL													
CALM												1.6	
	2.6	36.9	40.5	18.2	.1							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 797



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

7 7930 SEATTLE/TACOMA IAP, WA  
STATION

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	6.2	14.7	3.1								23.8	7.9
NNE		1.9	3.1	1.5								6.4	8.5
NE		.8	1.1									1.9	6.9
ENE		.8	.8	.1								1.6	7.2
E	.3	.9	.6									1.8	5.6
ESE	.1	1.1	.8	.1								2.1	6.5
SE	.1	1.4	1.5	.3								3.3	6.9
SSE	.3	2.3	1.3									3.8	5.8
S	.8	6.8	4.3	1.3								13.1	6.7
SSW	.9	3.7	3.0	1.5								8.4	7.5
SW	.4	2.1	2.8	.8								6.0	7.4
WSW	.4	1.4	.4	.1								2.3	5.6
W	.9	2.1	.1									3.1	4.3
WNW	.5	1.9	.1									2.5	4.6
NW		3.3	.5	.1								3.9	5.5
NNW	.4	3.5	4.8	.5								9.2	6.9
VARBL													
CALM												6.8	
	5.4	39.2	39.1	9.4								100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 795



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

70793  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		4.9	7.2	1.4								13.5	7.5
NNE	.3	4.9	9.7	3.5								18.4	8.0
NE	.1	1.1	3.4	.1								4.8	7.2
ENE	.5	.9	.5									1.9	5.3
E	.3	1.4	1.0									2.6	6.1
ESE	.1	2.3	1.8	.1								4.3	6.4
SE	.1	3.6	1.3									5.0	5.8
SSE	.8	2.9	1.9									5.5	5.6
S	.8	7.2	5.2	1.0								14.1	6.6
SSW	1.1	2.4	3.9	1.1								8.6	7.2
SW	.4	1.4	1.3	.5								3.5	6.7
WSW	.3	1.8	.5	.1								2.6	5.9
W	.6	.6	.3									1.5	4.6
WNW	1.1	1.0										2.1	3.7
NW	.5	1.4	.1									2.0	4.2
NNW	.5	2.4	.1	.1								3.1	4.9
VARBL													
CALM												6.4	
	7.4	40.1	38.0	8.1								100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 795



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

77930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	4.6	7.3	3.0	.0							15.4	8.1
NNE	.3	3.5	4.8	1.6								10.1	7.6
NE	.2	1.7	1.4	.1								3.4	6.4
ENE	.2	.6	.3	.0								1.2	6.0
E	.5	1.5	.7	.0								2.7	5.4
ESE	.2	1.9	1.0	.1								3.3	6.0
SE	.3	2.8	1.7	.1								5.0	6.0
SSE	.5	3.4	1.9	.1								5.9	5.9
S	.7	6.7	5.6	1.4	.0							14.5	7.0
SSW	.5	2.7	3.4	1.5	.1							8.2	7.8
SW	.3	2.2	2.3	.9								5.6	7.4
WSW	.3	1.6	1.2	.3	.0							3.3	6.5
W	.5	2.4	.8	.0								3.7	5.3
WNW	.4	1.9	1.0	.1	.0							3.3	5.8
NW	.2	1.6	.8	.1								2.8	6.0
NNW	.5	1.8	2.1	.6								5.1	7.1
VARBL													
CALM												6.6	
	6.1	40.9	36.3	10.0	.2							100.0	6.5

TOTAL NUMBER OF OBSERVATIONS

6358



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

707930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	3.7	3.2	1.2								8.7	7.1
NNE	.1	3.7	3.6	1.8								9.2	7.9
NE	.6	2.9	2.6	.4								6.5	6.4
ENE	.1	1.3	.2									1.7	4.9
E	.4	3.1	1.1	.2								4.8	5.8
ESE	.7	5.8	2.5	1.0	.1							10.0	6.4
SE	.7	7.0	2.5	.5								10.7	5.9
SSE	1.0	6.5	2.3	.6		.1						10.5	6.1
S	.6	7.8	5.3	2.5	.1							16.3	7.2
SSW	.2	1.5	.9	2.2	.1							4.9	9.5
SW	.1	.2	.5	.7								1.6	9.2
WSW	.6	.7	.1									1.5	4.4
W		.5										.5	4.5
WNW	.4	.5										.9	4.0
NW	.6	.4										1.0	3.5
NNW	.5	1.2	.2									2.0	4.7
VARBL													
CALM												9.3	
	7.4	46.8	24.9	11.2	.4	.1						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

816



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

77930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.9	2.8	3.8	1.3								8.8	7.4
NNE	.9	3.6	2.5	2.6								9.4	7.8
NE	.5	2.3	1.0	.2								4.0	5.9
ENE	.1	.9	.4									1.3	5.4
E	.9	4.8	.6									6.3	4.9
ESE	.7	6.5	1.6	.5								9.3	5.8
SE	.6	8.1	4.0									12.8	5.8
SSE	1.5	5.8	2.3	.5								10.1	5.7
S	.4	5.5	5.2	2.3	.1							13.5	7.8
SSW	.7	1.1	2.0	.6	.1							4.5	7.7
SW	.1	1.2	1.2	.2		.2						3.1	8.1
WSW	.5	.7										1.2	4.4
W	.5	.9										1.3	4.0
WNW	.4	.6										1.0	4.0
NW	.1	.4										.5	4.0
NNW	.2	2.0	.2									2.5	4.7
VARBL													
CALM												10.3	
	9.0	47.1	24.8	8.3	.2	.2						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

815



7  
2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

77930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	4.2	2.4	2.7								10.1	7.8
NNE	.4	3.8	3.5	1.8								9.5	7.7
NE	.1	1.8	.5	.4								2.8	6.4
ENE	.4	.9	.1									1.3	4.5
E		3.2	1.0	.1								4.3	6.1
ESE	.6	6.4	2.4	.2								9.7	5.8
SE	.5	7.0	3.5	.2								11.2	6.0
SSE	1.3	6.4	3.5	.6								11.9	6.0
S	1.2	7.3	5.4	2.1								16.0	6.9
SSW	.7	1.3	2.2	1.6	.2							6.1	8.6
SW	.2	1.1	.2	.2								1.8	6.7
WSW	.1	.4										.5	4.0
W	.4	.4										.7	3.8
WNW	.1	.2	.1									.5	5.5
NW	.2	1.2	.1									1.6	4.6
NNW	.4	.9	.1									1.3	4.6
VARBL													
CALM												10.5	
	7.6	46.3	25.3	10.0	.2							100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

818



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

77930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	4.4	4.6	3.0	.2							12.4	8.3
NNE	.1	2.7	3.5	1.6								7.9	8.1
NE	.1	1.3	1.0	.2								2.7	6.5
ENE	.1	.7	.2									1.1	5.2
E	.4	1.2	.7	.2								2.6	6.6
ESE	.2	2.6	1.5	.1	.2							4.6	6.9
SE	.5	4.3	3.5									8.3	6.2
SSE	.4	4.7	3.2	1.1								9.4	6.7
S	1.0	5.7	6.7	3.8								17.2	7.9
SSW	.6	3.5	3.5	2.6	.2							10.5	8.3
SW		2.6	1.9	.7								5.2	7.2
WSW	.4	1.2	.6									2.2	5.5
W	.7	2.1	.2									3.0	4.8
WNW	.1	1.7										1.8	4.5
NW	.4	1.2	.2									1.8	5.0
NNW	.1	1.5	1.1									2.7	6.3
VARBL													
CALM												6.7	
	5.2	41.4	32.6	13.4	.7							100.0	6.7

TOTAL NUMBER OF OBSERVATIONS

822



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

707930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER

1200-1400  
HOURS (L.S.T.)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	4.0	5.3	4.6	.2							14.9	8.7
NNE	.4	1.6	2.4	.9	.1							5.4	8.2
NE	.5	.7	.7	.4	.1							2.4	7.4
ENE		.4	.1									.5	5.8
E	.4	.2	.4	.6								1.6	8.4
ESE		.6	.7	.5								1.8	8.4
SE	.1	1.2	1.2									2.6	6.3
SSE	.1	2.1	1.2	.5								3.9	7.3
S	.4	5.0	5.0	4.5	.2							15.1	8.7
SSW	.4	3.1	4.3	4.8	.6							13.1	9.7
SW	.2	3.2	3.3	2.4	.3							9.6	8.8
WSW	.7	3.8	1.5	.1		.1						6.2	6.0
W	.7	5.4	1.2									7.3	5.1
WNW	.4	2.9	1.8	.1								5.3	5.9
NW	.1	2.1	1.6	.1								3.9	6.2
NNW		1.3	1.8	.6								3.8	7.7
VARBL													
CALM												2.6	
	5.1	37.6	32.6	20.1	1.8	.1						100.0	7.7

TOTAL NUMBER OF OBSERVATIONS

819



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

727931  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.1	6.3	4.6	.2							13.3	9.5
NNE	.1	2.1	1.7	.4								4.2	7.1
NE		1.0	1.6									2.5	7.3
ENE		.6	.7									1.3	7.1
E	.1	.2	1.6	.2								2.2	8.1
ESE	.2	.6	1.0	.4								2.2	7.9
SE	.1	1.7	1.1	.4								3.3	6.8
SSE	.2	2.4	2.8	.2	.1							5.8	7.0
S	.4	4.5	3.7	4.3	.4							13.3	8.8
SSW	.2	3.3	3.4	3.4	.1							10.4	8.6
SW	.5	2.4	3.3	1.2	.1	.1						7.6	7.9
WSW	1.0	2.4	.7	.6								4.7	6.1
W	1.3	4.6	.7									6.6	4.8
WNW	.6	6.4	.7									7.7	5.1
NW	.6	1.9	.7	.2								3.5	5.8
NNW	.4	1.7	4.0	.8								6.9	7.7
VARBL													
CALM												4.6	
	5.9	37.8	33.9	16.8	1.0	.1						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

829



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEAR

OCT  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	5.5	9.0	1.0	.2							16.0	7.4
NNE	.2	3.4	3.0	2.4	.1							9.2	8.4
NE	.1	1.5	1.5	.4								3.4	7.1
ENE	.1	1.1	.5									1.7	5.4
E	.4	2.2	1.8	.4								4.7	6.5
ESE	.1	3.0	1.5	.5								5.1	6.8
SE	.5	2.2	2.9	.6								6.2	6.9
SSE	.7	4.1	2.4	1.1								8.4	6.7
S	1.3	5.1	4.6	3.8	.2							15.0	8.2
SSW	.6	1.7	3.0	1.3	.1							6.8	8.0
SW	.4	.8	1.7	1.0								3.9	8.5
WSW	.1	.5	.1	.1								.8	6.9
W	.2	.6	.2									1.1	4.6
WNW	.5	.7		.1								1.3	4.8
NW	.6	1.0	.1									1.7	3.9
NNW	.4	2.5	2.1	.1								5.1	6.0
VARBL													
CALM												9.6	
	6.7	35.9	34.4	12.7	.7							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

825



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

77931  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	4.1	4.6	1.8	.1							11.3	7.5
NNE	.8	3.2	5.6	2.1								11.7	7.8
NE	.1	2.3	1.6	.1								4.1	6.7
ENE	.1	1.5	.2									1.8	5.1
E	.7	4.0	1.1	.2								6.1	5.5
ESE	.1	5.3	3.3	.7	.1							9.6	6.7
SE	.6	5.1	3.4	.6								9.7	6.3
SSE	.5	4.4	2.4	.5	.1							7.9	6.6
S	.6	6.1	5.5	2.4	.1							14.7	7.7
SSW	.2	1.5	2.5	1.9								6.2	8.8
SW	.4	.8	.5		.4							2.1	7.9
WSW		.2	.5		.1							.8	9.0
W	.5	.5	.1									1.1	4.1
WNW	.7	.1										.8	3.1
NW	.4	.8										1.2	4.1
NNW	.2	2.7	.4	.1								3.4	5.4
VARBL													
CALM												7.5	
	6.7	42.6	31.7	10.6	1.0							100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

824



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

707930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	3.8	4.9	2.5	.1							12.0	8.0
NNE	.4	3.0	3.2	1.7	.0							8.3	7.9
NE	.3	1.7	1.3	.3	.0							3.6	6.6
ENE	.1	.9	.3									1.4	5.4
E	.4	2.4	1.0	.3								4.0	6.0
ESE	.4	3.8	1.8	.5	.1							6.5	6.5
SE	.5	4.6	2.8	.3								8.1	6.2
SSE	.7	4.5	2.5	.6	.0	.0						8.5	6.4
S	.7	5.9	5.2	3.2	.2							15.1	7.9
SSW	.5	2.1	2.7	2.3	.2							7.8	8.7
SW	.2	1.6	1.6	.8	.1	.0						4.4	8.1
WSW	.4	1.2	.4	.1	.0	.0						2.3	5.9
W	.5	1.9	.3									2.7	4.8
WNW	.4	1.7	.3	.0								2.4	5.0
NW	.4	1.1	.4	.0								1.9	5.1
NNW	.3	1.7	1.2	.2								3.5	6.3
VARBL													
CALM												7.6	
	6.7	41.9	30.0	12.9	.8	.1						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

6568



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.9	2.8	1.7	.1							8.1	7.8
NNE	.3	2.8	3.3	.6								7.0	7.0
NE	.3	2.3	2.3	.4								5.2	6.7
ENE	.1	1.0	.8	.6								2.5	7.8
E	.5	4.2	3.1	.6	.1							8.5	6.8
ESE	.6	6.7	4.1	1.8	.3							13.5	7.2
SE	.8	6.9	3.7	.3	.1							11.7	6.1
SSE	.8	5.3	2.9	.6	.4							10.1	6.7
S		3.7	5.1	5.1	.6							14.5	9.8
SSW		1.0	1.8	3.2	1.0							7.0	11.5
SW	.3	.8	1.3	.4	.1							2.8	8.1
WSW	.1	.1	.5	.4		.1						1.3	10.5
W		.4	.1		.1							.6	7.4
WNW	.1	.1			.1							.4	8.0
NW	.1	.4										.5	4.5
NNW		.6	.1	.1								.9	6.1
VARBL													
CALM												5.3	
	4.6	39.3	31.8	15.8	3.1	.1						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS

786



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT: WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

7793  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	3.4	2.8	2.0	.1							8.8	8.0
NNE	.6	3.4	3.4	.6								8.1	6.9
NE	.3	2.7	1.5									4.4	5.9
ENE	.3	1.7	1.1	.3								2.7	7.1
E	.4	4.0	1.8	.4								6.6	6.1
ESE	.9	6.7	3.3	.9								11.7	6.3
SE	.5	5.8	3.5	.8	.1							10.7	6.6
SSE	.4	5.8	3.3	1.4	.4							11.2	7.2
S	.3	3.7	6.8	6.6	.6							17.9	9.9
SSW	.1	1.0	1.1	1.9	.1							4.3	9.9
SW	.1	.3	.6	.8								1.8	9.6
WSW		.1	.6	.4	.1							1.3	10.3
W		.1										.1	4.0
WNW			.1									.1	7.0
NW	.1	.4										.5	3.8
NNW	.1	.8	.3	.4								1.5	7.9
VARBL													
CALM												8.2	
	4.6	39.1	30.3	16.3	1.5							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

792



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

7-7937  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	2.3	3.1	1.4								7.3	7.7
NNE	.3	3.4	3.1	.9								7.7	7.1
NE		2.8	1.5	.3								4.5	6.3
ENE	.3	1.7	.8	.3								2.3	6.7
E	.5	4.3	2.0	.8								7.5	6.3
ESE	.4	6.4	4.3	.8	.1							11.9	6.8
SE	.4	7.5	4.5	.8								13.2	6.5
SSE	.5	4.8	2.3	1.6	.5							9.7	7.6
S	.4	3.5	6.8	5.2	.6							16.5	9.4
SSW	.3	.9	2.1	2.5	.3							6.0	10.2
SW	.1	.4	.4	.9	.3							2.0	10.9
WSW	.1	.6	.4	.3								1.4	7.2
W	.1	.1										.3	4.0
WNW		.1										.1	5.0
NW	.3	.4	.1									.8	4.5
NNW	.3	.8	.4	.3	.1							1.8	7.1
VARBL													
CALM												7.2	
	4.3	39.2	31.8	15.7	1.9							100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

796



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

707930 SEATTLE/TACOMA IAP, WA

73-81

NOV

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

0900-1100

HOURLY (L & T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	3.7	3.8	1.6								9.3	7.4
NNE	.4	1.6	3.0	1.6								6.7	8.3
NE	.3	1.5	.5	.3								2.5	5.8
ENE	.4	.6	.6									1.6	5.5
E	.5	2.9	1.8	.8								5.9	6.9
ESE	.6	3.5	3.4	2.3	.1	.3						10.2	8.1
SE	.3	4.7	3.0	.3								8.2	6.3
SSE	.6	5.3	3.8	1.3	.3	.1						11.3	7.4
S	1.3	4.0	6.0	6.5	.5	.1	.1					18.6	9.4
SSW	.6	1.8	2.6	3.3	1.0							9.3	10.4
SW	.3	.9	.8	1.3	.4							3.5	10.0
WSW	.1	.8	.1	.1								1.1	5.9
W	.1	.8	.3									1.1	5.2
WNW	.3	1.1	.1									1.5	4.5
NW	.3	.1	.1									.5	4.8
NNW	.1	.8		.5	.1							1.5	8.7
VARBL													
CALM												6.9	
	6.9	33.4	30.0	19.8	2.4	.5	.1					100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

794



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

7703  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.3	5.9	2.4	.3							11.0	8.6
NNE	.1	1.5	3.0	1.6								6.3	8.5
NE	.3	1.1	.6	.3								2.3	6.4
ENE	.3	.5	.3	.1								1.1	6.2
E	.3	1.6	1.4	.6	.1							4.0	7.5
ESE	.6	1.6	1.8	.9	.3	.1						5.3	8.6
SE	.1	2.4	2.0	.6	.1							5.3	7.5
SSE	.8	3.1	2.5	1.4		.1						7.9	7.3
S	.8	5.8	6.2	5.4	.9	.3	.3					19.5	9.4
SSW	.4	2.3	2.6	4.0	1.1	.1						10.6	10.9
SW	.1	2.6	2.4	1.8	.3	.1						7.3	8.8
WSW	.4	1.8	1.4	.9								4.4	7.7
W	.4	1.9	.4									2.6	5.0
WNW	.6	1.6	.4									2.6	4.8
NW		1.0	.3									1.3	5.5
NNW	.1	2.1	1.0	.1								3.4	6.1
VARBL													
CALM												5.0	
	5.3	33.4	32.1	20.2	3.0	.8	.3					100.0	7.9

TOTAL NUMBER OF OBSERVATIONS

794



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

727931  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	4.7	6.0	1.8								11.9	7.8
NNE		2.0	3.4	.8								6.1	8.0
NE		.9	.9	.5								2.3	7.8
ENE	.3	.8	1.0	.4								2.4	7.1
E	.1	1.8	1.9	.6								4.4	7.6
ESE	.1	1.5	1.5	1.6	.3							5.0	9.4
SE		2.9	2.3	.4								5.5	6.8
SSE	.6	3.8	3.1	1.0	.1							8.7	7.3
S	.9	5.4	5.1	5.8	.8	.4	.3					18.6	9.5
SSW	.5	2.0	2.1	4.3	.9	.3						10.0	11.0
SW	.4	1.9	1.1	1.8	.6							5.8	9.4
WSW	.4	1.6	1.1	.3								3.4	6.2
W	.8	1.9										2.6	4.2
WNW	.6	1.1	.1									1.9	4.2
NW	.1	1.6	.3									2.0	4.6
NNW	.3	1.8	1.4	.1	.1							3.6	6.6
VARBL													
CALM												5.8	
	5.1	34.9	31.4	19.2	2.8	.6	.3					100.0	7.7

TOTAL NUMBER OF OBSERVATIONS

797



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	5.0	5.0	1.2								11.4	7.1
NNE	.5	3.7	2.7	1.1								8.1	7.2
NE	.4	1.4	1.7	.5								4.0	6.9
ENE	.1	1.4	.5	.2								2.2	6.5
E	.7	3.5	2.4	1.2	.1							8.0	7.4
ESE	.2	2.5	3.7	1.6	.2							8.3	8.4
SE	.2	3.6	2.9	.7								7.5	6.7
SSE	.2	5.0	3.0	1.2	.1							9.6	7.1
S	.6	3.7	7.2	6.5	1.1	.1						19.3	10.0
SSW	.1	1.4	1.7	1.7	.5							5.5	10.1
SW		.7	1.1	.7	.5							3.1	10.4
WSW	.2	.9	.2	.2	.1							1.7	7.4
W	.2	.2	.2									.7	5.3
WNW		.5										.5	4.8
NW	.5	.6										1.1	3.9
NNW		1.9	.7	.1								2.7	6.4
VARBL													
CALM												6.2	
	4.5	35.9	33.2	17.3	2.7	.1						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

804



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L & T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	4.1	3.5	1.1								8.9	7.4
NNE	.1	2.9	3.6	.3	.1							7.0	7.2
NE		1.6	2.1	.4								4.1	7.5
ENE	.1	1.8	1.1	.4	.1							3.5	7.3
E	.3	4.6	3.0	.8	.4							9.0	7.3
ESE	.4	4.5	5.8	2.3	.4							13.3	8.0
SE	.4	5.1	3.9	.9								10.3	6.9
SSE	.5	4.5	3.1	1.0								9.1	7.1
S	.9	3.3	5.6	6.9	1.0							17.6	10.0
SSW	.3	1.3	.8	3.3	.9	.1						6.5	11.7
SW	.5	.6	.8	.5	.4							2.8	9.2
WSW	.1	.3										.4	3.7
W	.1	.4	.1									.6	5.0
WNW	.1	.1	.1									.4	4.7
NW	.3	.8										1.0	4.0
NNW		.8	.5	.4								1.6	7.8
VARBL													
CALM												4.0	
	4.1	36.5	34.0	18.0	3.3	.1						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

800



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

77930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	3.4	4.1	1.7	.1							9.6	7.7
NNE	.3	2.7	3.2	.9	.0							7.1	7.5
NE	.2	1.8	1.4	.3								3.7	6.6
ENE	.2	1.0	.8	.3	.0							2.3	6.9
E	.4	3.4	2.2	.7	.1							6.7	7.0
ESE	.5	4.2	3.5	1.5	.2	.0						9.9	7.6
SE	.3	4.9	3.2	.6	.0							9.0	6.6
SSE	.6	4.7	3.0	1.2	.2	.0						9.7	7.2
S	.6	4.1	6.1	6.0	.8	.1	.1					17.8	9.7
SSW	.3	1.4	1.9	3.0	.7	.1						7.4	10.8
SW	.2	1.0	1.1	1.0	.3	.0						3.6	9.4
WSW	.2	.8	.6	.3	.0	.0						1.9	7.5
W	.2	.7	.1		.0							1.1	5.0
WNW	.2	.6	.1		.0							.9	4.8
NW	.2	.7	.1									1.0	4.5
NNW	.1	1.2	.6	.3	.0							2.1	6.9
VARBL													
CALM												6.1	
	4.9	36.5	31.8	17.8	2.6	.3	.1					100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

6363



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

77930 SEATTLE/TACOMA IAP, WA

73-81

DEC  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	2.8	2.7	.5								6.2	7.2
NNE	.2	3.0	2.6	.6								6.4	7.1
NE	.4	1.9	.4									2.7	5.1
ENE	.4	.9	.6									1.8	5.7
E	.4	4.9	3.0	.7								9.0	6.6
ESE		6.6	5.1	.9	.2							12.8	7.2
SE	.4	6.0	4.0	.4	.2							10.9	6.9
SSE	.4	3.8	3.2	1.2	.1							8.6	7.4
S	.5	5.2	6.3	6.0	.9	.6						19.5	9.7
SSW	.2	.2	2.4	5.6	1.0							9.5	12.3
SW	.2	.2	1.3	1.7	.6							4.1	11.5
WSW		.5	.7		.4							1.6	9.3
W		.4	.1									.5	5.0
WNW		.2										.2	5.0
NW		.5										.5	5.3
NNW	.5	.2	.1	.2								1.1	5.8
VARBL													
CALM												4.5	
	3.8	37.3	32.6	17.8	3.4	.6						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

822



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.7	3.0	.8								5.8	7.6
NNE	.1	2.7	2.3	.8								5.9	7.3
NE	.2	2.1	.6	.1								3.0	5.9
ENE	.4	1.1	.6	.1								2.2	6.1
E	1.1	6.4	2.3	.6								10.4	5.8
ESE	.6	6.4	3.6	1.2								11.9	6.6
SE	1.1	6.9	1.9	.8								10.8	5.7
SSE	.5	5.3	2.8	1.2	.1	.1						10.0	7.1
S	.1	3.6	5.9	5.0	1.7	.1						16.4	10.4
SSW		1.3	1.9	3.7	1.2							8.2	11.6
SW	.2	1.2	1.7	2.4	.6							6.2	10.5
WSW		.6	.6	.2								1.5	8.0
W	.1	.1										.2	4.0
WNW	.1	.4										.5	4.0
NW	.1	.1	.1									.4	5.7
NNW		.4	.1	.1								.6	7.4
VARBL													
CALM												6.0	
	5.0	40.3	27.6	17.3	3.6	.2						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS

827



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT- WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

7 793  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		3.4	2.2	1.6	.1							7.4	7.6
NNE	.6	2.1	2.6	.9								6.1	7.1
NE	.2	1.8	.9									2.9	5.8
ENE	.2	.7	.6	.1								1.7	6.6
E	.5	4.3	2.7	.7								8.2	6.6
ESE	.2	5.3	4.0	1.6	.5							11.7	7.8
SE	.7	7.2	2.8	.6								11.4	6.1
SSE	.6	4.5	3.7	.6								9.4	6.6
S	.7	5.3	5.4	6.6	1.7							19.8	9.7
SSW	.4	2.2	1.6	2.5	1.0	.1						7.7	10.3
SW	.2	.6	1.3	.7	.6							3.6	10.3
WSW		.5	.7	.4								1.6	8.9
W		.4	.2									.6	5.8
WNW		.9										.9	4.9
NW	.1	.5										.6	4.8
NNW	.2	.5	.1	.1								1.0	6.0
VARBL													
CALM												5.4	
	4.9	40.2	29.0	16.4	3.9	.1						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 815



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

77930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	2.7	4.0	1.0								7.9	7.6
NNE	.1	1.3	1.9	.7								4.1	7.5
NE	.1	1.3	1.0	.1								2.5	6.8
ENE	.1	1.2	.4	.1								1.8	6.1
E	.5	2.3	2.4	.5								5.7	6.9
ESE	.6	4.1	3.9	2.1	.1	.1						10.9	7.7
SE	.2	5.1	3.8	.4								9.5	6.6
SSE	1.1	4.2	3.9	.7								10.0	6.7
S	.8	6.4	6.6	7.6	1.7							23.2	9.6
SSW	.5	1.2	3.6	2.7	.6							8.6	9.9
SW		1.0	.6	1.7	.1							3.4	10.2
WSW		.8	.6	.7	.1							2.3	9.1
W	.4	1.3	.1									1.8	4.5
WNW		.6										.6	4.8
NW	.1	.5		.4								1.0	7.5
NNW	.1	1.0	.5									1.6	5.6
VARBL													
CALM												5.1	
	5.0	35.2	33.3	18.7	2.7	.1						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

824



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

7793  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.3	3.7	1.8								8.2	8.1
NNE	.2	3.2	2.1	.2								5.8	6.4
NE	.1	1.2	1.0	.2								2.6	6.7
ENE		.9	.1	.1								1.1	6.1
E	.5	3.1	1.5	.2								5.3	6.0
ESE	.6	2.3	2.6	1.2	.1							6.9	7.8
SE	.4	4.3	2.5	.9								8.0	6.7
SSE	.6	2.8	2.3	1.0	.1							6.9	7.2
S	.2	5.9	4.9	7.1	2.2							20.4	10.0
SSW	.4	2.3	4.4	5.2	1.2	.1						13.6	10.6
SW	.1	1.1	2.0	2.8	.7	.1						6.9	11.1
WSW	.4	1.0	.7	.9								2.9	8.0
W	.7	1.4	.2									2.3	4.5
WNW	.1	.5										.6	4.0
NW	.5	.5	.4									1.4	4.9
NNW		1.7	.7	.2	.4							3.1	8.1
VARBL													
CALM												4.1	
	5.3	34.5	29.1	22.0	4.8	.2						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

814



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

707931 SEATTLE/TACOMA IAP, WA

73-81

DEC

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

1500-1700

HOURS (L & T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	3.9	5.5	1.0								10.7	7.4
NNE		3.8	2.5	.4	.1							6.8	6.8
NE		2.1	.4	.1								2.6	6.1
ENE	.1	.9	.7	.1								1.8	6.6
E	.1	2.9	1.5	.4								4.9	6.7
ESE	.2	2.2	2.7	1.2	.1							6.5	8.2
SE	.2	3.3	2.5	.1								6.1	6.3
SSE	.7	3.3	3.8	1.0	.4							9.2	7.7
S	.2	3.9	6.9	5.2	1.6	.1						17.9	10.1
SSW		1.6	3.9	5.2	1.8	.2						12.8	11.7
SW	.4	1.5	2.1	2.1	.9	.1						7.0	10.6
WSW	.4	.7	.5	.6	.1	.1						2.5	9.0
W	.1	.2	.4	.2								1.0	7.3
WNW	.1	.9	.1	.1								1.2	5.4
NW	.5	.9	.1									1.5	4.5
NNW	.1	1.0	1.6	.5								3.2	7.8
VARBL													
CALM												4.3	
	3.6	33.2	35.1	18.2	5.0	.6						100.0	8.2

TOTAL NUMBER OF OBSERVATIONS

814



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

77931  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	2.7	3.7	1.2								7.2	7.8
NNE	.2	2.7	3.2	.9								6.9	7.5
NE	.4	1.7	1.5	.1								3.6	6.6
ENE		.6	.5	.2								1.3	7.7
E		4.6	3.8	.5								8.9	6.7
ESE	.2	3.5	3.8	1.7								9.2	7.6
SE	.5	5.4	1.8	.6								8.3	6.3
SSE	.7	3.2	4.0	.6	.1							8.6	6.9
S	1.1	3.8	8.8	4.7	1.8	.1	.1					20.4	9.9
SSW	.4	2.1	2.9	2.4	1.8	.5						10.1	11.4
SW	.1	1.0	1.5	2.2	1.8	.1						6.7	12.4
WSW	.2	.6	.4	.1		.1						1.5	7.2
W	.5	.2										.7	3.3
WNW	.4	.2										.6	3.6
NW	.2	.4										.6	4.4
NNW		1.0	.2									1.2	5.3
VARBL													
CALM												4.0	
	5.2	33.6	35.3	15.3	5.6	.9	.1					100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

822



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

7 793  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.4	3.5	.9								6.9	7.7
NNE	.6	2.3	2.4	.2								5.6	6.7
NE		1.8	.9	.2								2.9	6.4
ENE	.2	.7	.7	.1								1.8	6.7
E	.6	4.0	3.2	1.1								8.9	7.0
ESE	.5	5.5	4.3	2.1								12.3	7.3
SE	.6	6.0	3.9	.4	.1							10.9	6.4
SSE	.5	5.8	2.7	.9		.1						10.0	6.6
S	.5	4.5	8.4	6.7	1.5	.1						21.7	9.9
SSW	.4	1.2	2.3	3.8	1.6	.1						9.4	12.0
SW	.4	.6	.5	.6	1.0	.1						3.2	11.5
WSW	.1	.2	.5	.2	.1							1.2	8.9
W		.2		.1								.4	6.7
WNW	.4	.1										.5	3.5
NW		.1										.1	5.0
NNW	.1	.5	.1									.7	5.0
VARBL													
CALM												3.5	
	5.0	36.1	33.3	17.3	4.3	.5						100.0	7.9

TOTAL NUMBER OF OBSERVATIONS

822



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

7 793  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

ALL  
NOV (L S Y)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	2.7	3.5	1.1	.0							7.5	7.6
NNE	.3	2.6	2.4	.6	.0							6.0	7.0
NE	.2	1.8	.8	.1								2.9	6.2
ENE	.2	.9	.5	.1								1.7	6.4
E	.5	4.1	2.5	.6								7.7	6.5
ESE	.4	4.5	3.7	1.5	.1	.0						10.3	7.4
SE	.5	5.5	2.9	.5	.0							9.5	6.4
SSE	.6	4.1	3.3	.9	.1	.0						9.1	7.0
S	.5	4.8	6.6	6.1	1.6	.1	.0					19.9	9.9
SSW	.3	1.5	2.9	3.9	1.3	.1						10.0	11.2
SW	.2	.9	1.4	1.8	.8	.1						5.1	11.1
WSW	.1	.6	.6	.4	.1	.0						1.9	8.6
W	.2	.5	.1	.0								.9	5.0
WNW	.1	.5	.0	.0								.6	4.5
NW	.2	.4	.1	.0								.7	5.2
NNW	.1	.8	.4	.2	.0							1.6	6.9
VARBL													
CALM												4.6	
	4.7	36.3	31.9	17.9	4.2	.4	.0					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 6560



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

77930 SEATTLE/TACOMA IAP, WA 73-81 ALL  
STATION STATION NAME YEARS  
ALL WEATHER  
CLASS  
CONDITION  
ALL  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.3	3.2	4.8	1.6	.1							10.0	7.9
NNE	.3	2.9	3.5	1.0	.0							7.6	7.5
NE	.2	1.5	1.1	.2	.0							3.0	6.6
ENE	.1	.7	.5	.1	.0							1.4	6.6
E	.3	2.2	1.6	.4	.0	.0						4.5	6.7
ESE	.3	2.5	1.8	.7	.0	.0						5.3	7.1
SE	.3	3.3	1.9	.3	.0	.0						5.8	6.3
SSE	.5	3.6	2.2	.6	.0	.0						6.9	6.6
S	.6	5.6	5.8	3.3	.5	.0	.0					15.8	8.3
SSW	.4	2.8	4.1	3.2	.6	.1	.0					11.2	9.3
SW	.3	2.0	2.7	1.6	.3	.0	.0	.0				6.9	8.8
WSW	.3	1.7	1.3	.5	.1	.0						3.9	7.1
W	.4	2.1	1.0	.1	.0							3.7	5.7
WNW	.3	1.5	.8	.1	.0							2.6	5.8
NW	.2	1.2	.7	.1	.0	.0						2.3	6.1
NNW	.3	1.6	1.5	.5	.0							3.9	7.2
VARBL													
CALM												5.2	
	5.2	38.4	35.4	14.1	1.6	.2	.0	.0				100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 77970



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

7793  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

ALL  
MONTH

## INSTRUMENT

CLASS

CIG 200 TO 1400 FT W/ VSBY 1/2 MI OR MORE,

CONDITION

AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

ALL  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	3.0	2.8	1.2	.1							7.3	7.5
NNE	.3	2.1	1.7	.5	.0							4.6	6.9
NE	.2	1.3	.5	.1								2.0	5.9
ENE	.1	.5	.2	.0								.9	5.7
E	.1	1.6	.7	.1	.0							2.5	6.1
ESE	.2	2.3	1.3	.2	.0							4.1	6.4
SE	.3	3.5	1.9	.2								5.9	6.1
SSE	.6	4.3	2.7	.4	.0							8.0	6.3
S	.7	7.9	8.0	5.1	.9	.1	.0					22.7	8.5
SSW	.5	4.0	5.9	5.1	1.4	.1	.0					17.1	9.9
SW	.3	3.2	3.4	1.9	.4	.0						9.2	8.5
WSW	.3	1.8	1.0	.3	.0	.0						3.5	6.7
W	.4	1.4	.3	.0	.0							2.2	5.0
WNW	.2	1.1	.1	.0	.0							1.5	4.9
NW	.2	.9	.1	.0								1.3	4.9
NNW	.3	1.1	.5	.1								2.0	5.8
VARBL													
CALM												5.3	
	5.2	40.0	31.0	15.3	2.9	.2	.0					100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

10204



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.


U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968.

Continued on Reverse Side



EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{5}{16}$	$\geq \frac{1}{4}$	$\geq 0$	
NO CEILING																
IV 1800																
IV 1500					91.0											92.6
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500										97.4						98.1
IV 400																
IV 300																
IV 200																
IV 100																
IV 0					95.4		96.9			98.3						100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
Ceiling  $\geq 500$  feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.



#### ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.  
Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $\geq 1$  mile, but < 3 miles; or ceiling  $\geq 500$  feet, but < 1500 feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72793 SEATTLE/TACOMA IAP, WA

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥9	≥8	≥7	≥6	≥5	≥4	≥3	≥2	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	25.1	28.6	29.8	30.9	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.2	31.2	31.3	31.5
≥ 20000	27.5	31.4	32.8	33.9	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.1	34.1	34.2	34.5
N 18000	27.5	31.5	32.9	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.2	34.3	34.6
N 16000	27.5	31.5	32.9	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.2	34.3	34.6
N 14000	28.4	32.4	33.7	34.8	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.1	35.1	35.2	35.4
N 12000	30.1	34.1	35.4	36.7	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.9	36.9	37.0	37.3
N 10000	31.9	35.9	37.3	38.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.7	38.7	38.9	39.1
N 9000	32.4	36.4	37.9	39.1	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.3	39.3	39.5	39.7
N 8000	33.1	37.3	38.9	40.1	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.3	40.3	40.4	40.7
N 7000	35.8	40.0	41.5	42.8	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	43.0	43.0	43.1	43.4
N 6000	36.8	40.9	42.5	43.7	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	44.0	44.0	44.1	44.3
N 5000	39.0	43.4	44.9	46.3	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.5	46.5	46.7	46.9
N 4500	40.2	44.6	46.2	47.5	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.7	47.7	47.9	48.1
N 4000	41.5	45.9	47.5	49.0	49.1	49.1	49.2	49.2	49.2	49.2	49.2	49.2	49.3	49.3	49.5	49.7
N 3500	43.5	48.5	50.1	51.6	51.8	51.8	51.9	51.9	51.9	51.9	51.9	51.9	52.0	52.0	52.1	52.4
N 3000	47.1	54.1	56.4	58.6	58.7	58.7	58.8	58.8	58.8	58.8	58.8	58.8	59.0	59.0	59.1	59.3
N 2500	50.1	58.0	60.7	63.3	63.5	63.5	63.6	63.6	63.6	63.6	63.6	63.6	63.7	63.7	63.8	64.1
N 2000	53.1	62.9	66.1	69.5	70.0	70.0	70.4	70.4	70.4	70.4	70.5	70.5	70.6	70.6	70.8	71.0
N 1800	53.8	64.1	67.4	71.0	71.6	71.6	72.2	72.2	72.2	72.4	72.4	72.4	72.5	72.5	72.6	72.8
N 1500	56.2	67.0	70.6	74.5	75.4	75.4	76.1	76.1	76.1	76.2	76.2	76.2	76.4	76.4	76.5	76.7
N 1200	59.0	70.3	74.5	79.0	80.1	80.1	80.9	80.9	80.9	81.0	81.0	81.0	81.1	81.1	81.2	81.5
N 1000	60.7	72.1	76.6	81.2	82.3	82.3	83.1	83.2	83.2	83.3	83.3	83.3	83.4	83.4	83.6	83.8
N 900	61.1	72.6	77.2	82.0	83.4	83.4	84.2	84.3	84.3	84.4	84.4	84.4	84.5	84.5	84.7	84.9
N 800	61.5	73.4	78.1	82.8	84.3	84.3	85.0	85.1	85.1	85.3	85.3	85.3	85.4	85.4	85.5	85.7
N 700	61.9	73.9	78.7	83.4	84.9	84.9	85.6	85.9	85.9	86.0	86.0	86.0	86.1	86.1	86.2	86.5
N 600	62.4	75.3	80.0	85.1	86.7	86.7	87.6	87.9	87.9	88.1	88.1	88.1	88.2	88.2	88.3	88.6
N 500	62.6	75.8	80.8	86.0	87.7	87.7	88.7	89.2	89.2	89.4	89.4	89.4	89.5	89.5	89.6	89.9
N 400	62.6	76.0	81.2	86.7	88.6	88.6	89.6	90.3	90.3	90.6	90.7	90.7	90.9	90.9	91.0	91.2
N 300	62.6	76.0	81.2	87.0	89.0	89.0	90.7	91.5	91.5	92.7	92.8	92.8	93.3	93.3	93.4	93.8
N 200	62.6	76.0	81.2	87.1	89.3	89.3	91.4	92.2	92.2	94.0	94.2	94.2	95.1	95.1	95.6	96.2
N 100	62.6	76.0	81.2	87.2	89.4	89.4	91.7	92.7	92.7	94.6	94.8	94.8	96.1	96.1	97.0	98.9
N 0	62.6	76.0	81.2	87.2	89.4	89.4	91.7	92.7	92.7	94.6	94.8	94.8	96.1	96.1	97.3	100.0

TOTAL NUMBER OF OBSERVATIONS 821

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

72793 SEATTLE/TACOMA IAP, WA

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	23.6	26.4	26.7	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.5	27.5	27.7
≥20000	25.6	28.5	29.0	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.8	29.8	30.0
18000	25.6	28.5	29.0	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.8	29.8	30.0
16000	25.8	28.7	29.2	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	30.0	30.0	30.3
14000	26.4	29.3	29.8	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.6	30.6	30.9
12000	27.7	30.9	31.5	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.6
10000	29.7	33.1	33.8	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.6	34.6	34.9
9000	31.0	34.4	35.2	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.1	36.1	36.3
8000	31.8	35.5	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.2	37.2	37.4
7000	33.4	37.0	37.9	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.7	38.7	39.0
6000	33.8	37.5	38.4	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.2	39.2	39.4
5000	37.8	41.7	42.6	43.3	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.5	43.5	43.8
4500	39.3	43.8	44.6	45.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.7	45.7	46.0
4000	43.7	45.5	46.3	47.2	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.9	47.9	48.1
3500	43.1	48.3	49.6	50.4	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.3	51.3	51.5
3000	46.1	52.1	54.5	55.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.6	56.6	56.8
2500	49.2	56.3	59.2	60.6	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	62.0	62.0	62.2
2000	51.9	61.8	64.9	66.8	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.3	68.3	68.5
1800	52.8	63.2	66.8	69.0	70.3	70.3	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.7	70.7	70.9
1500	55.1	66.5	70.2	72.9	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	75.0	75.0	75.3
1200	56.8	69.4	73.2	76.1	77.8	77.8	78.2	78.3	78.3	78.3	78.6	78.6	78.6	78.9	78.9	79.1
1000	58.4	71.9	75.9	79.0	80.9	80.9	81.3	81.4	81.4	82.0	82.0	82.0	82.0	82.3	82.3	82.5
900	59.2	72.9	76.8	80.0	81.9	81.9	82.3	82.4	82.4	83.0	83.0	83.0	83.0	83.2	83.2	83.5
800	59.6	73.5	77.4	80.8	82.9	82.9	83.2	83.4	83.4	84.0	84.0	84.0	84.0	84.2	84.2	84.4
700	60.0	74.2	78.3	81.7	83.7	83.7	84.1	84.2	84.2	84.8	84.8	84.8	84.8	85.0	85.0	85.4
600	60.3	75.5	79.9	83.6	85.6	85.6	86.1	86.4	86.4	87.0	87.1	87.1	87.1	87.3	87.3	87.9
500	60.8	76.1	80.5	84.3	86.4	86.4	86.9	87.1	87.1	87.7	87.8	87.8	87.8	88.1	88.1	88.7
400	60.8	76.2	80.8	84.8	86.9	86.9	87.3	87.9	87.9	88.7	88.8	88.8	88.8	89.0	89.0	89.6
300	60.9	76.5	81.2	85.4	87.9	87.9	88.5	89.3	89.3	90.1	90.3	90.3	90.3	91.1	91.1	91.7
200	60.9	76.5	81.2	86.0	88.4	88.4	89.0	90.0	90.0	91.6	91.8	91.8	91.8	92.9	92.9	94.5
100	60.9	76.5	81.2	86.0	88.4	88.4	89.3	90.2	90.2	92.0	92.5	92.5	92.5	94.7	94.7	96.1
0	60.9	76.5	81.2	86.0	88.4	88.4	89.3	90.2	90.2	92.0	92.5	92.5	92.5	94.7	94.7	100.0

TOTAL NUMBER OF OBSERVATIONS 829



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 7930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEAR

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .03	≥ 0
NO CEILING	20.1	21.6	22.0	23.5	23.5	23.5	23.6	23.6	23.6	24.1	24.1	24.1	24.4	24.4	24.8	25.1
≥ 20000	21.7	23.4	23.9	25.4	25.4	25.4	25.6	25.6	25.6	26.1	26.1	26.1	26.4	26.4	26.7	27.1
≥ 18000	21.8	23.5	24.0	25.5	25.5	25.5	25.9	25.9	25.9	26.4	26.4	26.4	26.6	26.6	27.0	27.3
≥ 16000	22.3	24.0	24.5	26.0	26.0	26.0	26.4	26.4	26.4	26.8	26.8	26.8	27.1	27.1	27.5	27.8
≥ 14000	23.4	25.2	25.7	27.2	27.2	27.2	27.6	27.6	27.6	28.1	28.1	28.1	28.3	28.3	28.7	29.1
≥ 12000	25.0	26.8	27.6	29.1	29.1	29.1	29.4	29.4	29.4	29.9	29.9	29.9	30.2	30.2	30.5	30.9
≥ 10000	27.1	29.1	29.9	31.4	31.4	31.4	31.9	31.9	31.9	32.4	32.4	32.4	32.6	32.6	33.0	33.4
≥ 9000	28.6	30.5	31.4	32.9	32.9	32.9	33.4	33.4	33.4	33.9	33.9	33.9	34.1	34.1	34.5	34.9
≥ 8000	29.4	31.4	32.3	33.7	33.7	33.7	34.2	34.2	34.2	34.7	34.7	34.7	35.0	35.0	35.3	35.7
≥ 7000	32.0	34.1	35.0	36.5	36.5	36.5	36.9	36.9	36.9	37.4	37.4	37.4	37.7	37.7	38.1	38.4
≥ 6000	32.9	35.0	35.8	37.3	37.3	37.3	37.8	37.8	37.8	38.3	38.3	38.3	38.5	38.5	38.9	39.3
≥ 5000	34.9	37.2	38.2	39.7	39.7	39.7	40.1	40.1	40.1	40.6	40.6	40.6	40.9	40.9	41.3	41.6
≥ 4500	35.5	38.3	39.3	40.8	40.8	40.8	41.3	41.3	41.3	41.7	41.7	41.7	42.0	42.0	42.4	42.7
≥ 4000	37.8	41.0	42.0	43.5	43.5	43.5	44.1	44.1	44.1	44.6	44.6	44.6	44.8	44.8	45.2	45.6
≥ 3500	40.0	43.8	44.8	46.3	46.3	46.3	46.9	46.9	46.9	47.4	47.4	47.4	47.7	47.7	48.0	48.4
≥ 3000	44.0	48.4	49.5	51.4	51.5	51.5	52.1	52.1	52.1	52.6	52.6	52.6	52.8	52.8	53.2	53.6
≥ 2500	47.9	53.4	54.9	56.9	57.1	57.1	58.0	58.0	58.0	58.5	58.5	58.5	58.7	58.7	59.1	59.5
≥ 2000	51.7	58.4	60.0	62.4	63.1	63.1	64.0	64.0	64.0	64.5	64.5	64.5	64.8	64.8	65.1	65.5
≥ 1800	53.2	60.7	62.3	64.9	65.5	65.5	66.5	66.5	66.5	67.0	67.0	67.0	67.2	67.2	67.6	68.0
≥ 1500	54.6	63.5	65.4	68.7	69.3	69.3	70.6	70.6	70.6	71.2	71.2	71.2	71.4	71.4	71.9	72.3
≥ 1200	57.4	68.6	70.4	73.9	74.6	74.6	76.0	76.0	76.0	76.6	76.6	76.6	76.8	76.8	77.3	77.7
≥ 1000	58.9	71.4	73.8	77.5	78.2	78.2	79.7	79.8	79.8	80.4	80.4	80.4	80.7	80.7	81.3	81.7
≥ 900	59.7	72.4	74.9	78.6	79.4	79.4	81.3	81.4	81.4	82.0	82.0	82.0	82.3	82.3	82.9	83.3
≥ 800	60.1	73.3	75.7	79.4	80.4	80.4	82.3	82.5	82.5	83.1	83.1	83.1	83.4	83.4	84.0	84.4
≥ 700	60.6	73.8	76.2	79.9	80.9	80.9	82.9	83.1	83.1	83.9	83.9	83.9	84.1	84.1	84.7	85.1
≥ 600	61.2	75.0	77.6	81.8	83.0	83.0	85.2	85.5	85.5	86.2	86.2	86.2	86.5	86.5	87.1	87.4
≥ 500	61.3	75.4	78.1	82.3	83.5	83.5	85.7	86.0	86.0	86.8	86.8	86.8	87.1	87.1	87.7	88.1
≥ 400	61.5	76.0	78.8	83.4	84.6	84.6	87.4	87.7	87.7	88.7	88.7	88.7	88.9	88.9	89.5	89.9
≥ 300	61.5	76.0	78.9	83.5	85.1	85.1	88.5	88.8	88.8	89.9	90.0	90.0	90.3	90.3	90.9	91.3
≥ 200	61.5	76.0	79.1	84.0	85.7	85.7	89.5	89.9	89.9	91.6	91.9	91.9	93.0	93.0	94.1	95.8
≥ 100	61.5	76.0	79.1	84.0	85.7	85.7	89.7	90.0	90.0	91.9	92.6	92.6	94.2	94.2	96.2	99.4
≥ 0	61.5	76.0	79.1	84.0	85.7	85.7	89.7	90.0	90.0	91.9	92.6	92.6	94.2	94.2	96.2	99.4

TOTAL NUMBER OF OBSERVATIONS 812



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

77930 SEATTLE/TACOMA IAP, WA

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO. FEET	19.3	20.2	20.9	21.9	21.9	21.9	22.3	22.4	22.4	22.5	22.5	22.5	22.9	22.9	23.0	24.0
≥20000	21.9	23.0	23.7	24.9	24.9	24.9	25.3	25.4	25.4	25.5	25.5	25.5	26.0	26.0	26.3	27.6
≥18000	22.0	23.1	23.8	25.1	25.1	25.1	25.4	25.5	25.5	25.7	25.7	25.7	26.2	26.2	26.4	27.9
≥16000	22.9	24.0	24.7	26.0	26.0	26.0	26.4	26.5	26.5	26.6	26.6	26.6	27.1	27.1	27.4	28.8
≥14000	24.7	25.8	26.5	27.9	27.9	27.9	28.2	28.3	28.3	28.7	28.7	28.7	29.2	29.2	29.4	30.9
≥12000	27.3	28.7	29.4	30.9	30.9	30.9	31.3	31.4	31.4	31.8	31.8	31.8	32.2	32.2	32.5	34.1
≥10000	29.2	30.6	31.5	33.0	33.0	33.0	33.3	33.5	33.5	33.8	33.8	33.8	34.3	34.3	34.7	36.3
≥9000	29.9	31.5	32.2	33.7	33.7	33.7	34.1	34.2	34.2	34.5	34.5	34.5	35.2	35.2	35.5	37.1
≥8000	31.5	33.2	34.1	35.5	35.5	35.5	35.9	36.0	36.0	36.4	36.4	36.4	37.0	37.0	37.3	38.9
≥7000	32.6	34.3	35.2	36.7	36.7	36.7	37.1	37.2	37.2	37.6	37.6	37.6	38.2	38.2	38.6	40.1
≥6000	33.9	35.6	36.4	38.2	38.2	38.2	38.6	38.7	38.7	39.1	39.1	39.1	39.7	39.7	40.0	41.6
≥5000	35.9	38.1	39.1	40.8	40.8	40.8	41.2	41.4	41.4	41.8	41.8	41.8	42.5	42.5	42.8	44.4
≥4500	36.7	40.1	41.1	42.8	42.8	42.8	43.4	43.6	43.6	44.0	44.0	44.0	44.6	44.6	45.0	46.6
≥4000	40.3	43.8	44.9	46.6	46.7	46.7	47.2	47.3	47.3	47.8	47.8	47.8	48.4	48.4	48.8	50.5
≥3500	42.9	46.8	48.1	49.9	50.0	50.0	50.5	50.6	50.6	51.1	51.1	51.1	51.7	51.7	52.1	53.8
≥3000	46.4	50.7	52.1	54.0	54.1	54.1	54.6	54.7	54.7	55.4	55.4	55.4	56.0	56.0	56.3	58.0
≥2500	50.4	55.7	57.5	59.9	60.0	60.1	61.1	61.2	61.2	61.8	61.8	61.8	62.4	62.4	62.8	64.5
≥2000	52.6	58.9	60.9	63.5	63.7	63.9	65.1	65.5	65.5	66.1	66.1	66.1	66.7	66.7	67.0	68.7
≥1800	54.4	61.6	63.4	66.5	66.9	67.3	68.5	69.0	69.0	69.6	69.6	69.6	70.2	70.2	70.6	72.3
≥1500	56.3	64.6	66.7	69.7	70.2	70.6	72.0	72.5	72.5	73.1	73.1	73.1	73.7	73.7	74.1	75.8
≥1200	58.8	67.8	70.1	73.2	74.1	74.6	76.2	76.6	76.6	77.3	77.3	77.3	77.9	77.9	78.2	79.9
≥1000	60.5	70.8	73.2	76.6	77.5	78.0	79.6	80.0	80.0	80.8	80.8	80.8	81.4	81.4	81.8	83.5
≥900	60.9	71.8	74.2	77.6	78.6	79.2	80.8	81.3	81.3	82.0	82.0	82.0	82.6	82.6	83.0	84.7
≥800	61.8	72.7	75.2	78.6	79.8	80.4	82.0	82.5	82.5	83.2	83.2	83.2	83.8	83.8	84.2	85.9
≥700	62.8	74.0	76.5	80.2	81.4	82.0	83.6	84.1	84.1	84.8	84.8	84.8	85.4	85.4	85.8	87.5
≥600	63.0	74.3	76.9	80.5	82.1	82.7	84.3	85.0	85.0	85.9	85.9	85.9	86.5	86.5	86.9	88.6
≥500	63.1	74.7	77.3	81.0	82.7	83.3	85.3	85.8	85.8	86.9	86.9	86.9	87.5	87.5	88.0	89.7
≥400	63.2	74.7	77.4	81.1	83.0	83.6	85.8	86.4	86.4	87.6	87.7	87.7	88.4	88.4	88.9	90.6
≥300	63.2	75.1	77.9	81.8	83.7	84.3	87.8	88.6	88.6	90.3	90.8	90.8	92.5	92.5	93.4	96.2
≥200	63.1	75.1	77.9	81.8	83.7	84.3	87.8	88.6	88.6	90.3	90.8	90.8	92.9	92.9	94.4	99.4
≥100	63.2	75.1	77.9	81.8	83.7	84.3	87.8	88.6	88.6	90.3	90.8	90.8	92.9	92.9	94.4	100.0

TOTAL NUMBER OF OBSERVATIONS 822



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 7937  
STATIONSEATTLE/TACOMA IAP, WA  
STATION NAME73-81  
YEARJAN  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)1200-1400  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	22.5	24.4	25.0	25.4	25.4	25.8	26.1	26.4	26.4	26.4	26.5	26.5	26.7	26.7	26.9	26.9
≥ 20000	24.9	27.2	27.8	28.3	28.3	28.7	29.2	29.4	29.4	29.4	29.5	29.5	29.8	29.8	29.9	29.9
≥ 18000	25.6	28.2	28.8	29.3	29.3	29.7	30.2	30.4	30.4	30.4	30.5	30.5	30.8	30.8	30.9	30.9
≥ 16000	26.1	28.8	29.4	30.3	30.3	30.6	31.1	31.4	31.4	31.4	31.5	31.5	31.7	31.7	31.9	31.9
≥ 14000	28.2	30.9	31.5	32.4	32.4	32.7	33.3	33.6	33.6	33.6	33.7	33.7	33.9	33.9	34.1	34.2
≥ 12000	30.6	33.5	34.2	35.0	35.0	35.4	36.1	36.4	36.4	36.4	36.5	36.5	36.8	36.8	36.9	37.0
≥ 10000	33.0	35.9	36.6	37.5	37.6	38.0	38.7	39.1	39.1	39.1	39.2	39.2	39.4	39.4	39.6	39.7
≥ 9000	33.9	36.9	37.6	38.5	38.6	38.9	39.8	40.3	40.3	40.3	40.4	40.4	40.7	40.7	40.8	40.9
≥ 8000	34.6	37.5	38.2	39.1	39.2	39.6	40.4	40.9	40.9	40.9	41.0	41.0	41.3	41.3	41.4	41.5
≥ 7000	35.4	38.3	39.2	40.2	40.4	40.8	41.6	42.1	42.1	42.1	42.2	42.2	42.5	42.5	42.6	42.7
≥ 6000	36.5	39.4	40.3	41.3	41.5	41.9	42.7	43.2	43.2	43.2	43.3	43.3	43.6	43.6	43.7	43.8
≥ 5000	37.7	40.9	41.9	42.9	43.1	43.5	44.3	44.8	44.8	44.8	44.9	44.9	45.2	45.2	45.3	45.4
≥ 4500	39.2	43.0	44.0	45.1	45.3	45.7	46.5	47.0	47.0	47.0	47.1	47.1	47.4	47.4	47.5	47.6
≥ 4000	41.8	45.8	46.8	47.9	48.1	48.5	49.3	49.8	49.8	49.8	49.9	49.9	50.2	50.2	50.3	50.4
≥ 3500	45.4	49.8	50.8	52.0	52.4	52.7	53.6	54.1	54.1	54.1	54.3	54.3	54.6	54.6	54.7	54.8
≥ 3000	48.1	53.2	54.3	55.7	56.2	56.5	57.5	58.0	58.0	58.1	58.4	58.4	58.6	58.6	58.7	58.9
≥ 2500	52.4	58.6	59.8	61.4	62.0	62.4	63.6	64.1	64.1	64.2	64.5	64.5	64.7	64.7	64.8	65.0
≥ 2000	56.4	64.0	65.6	67.2	67.8	68.1	69.6	70.1	70.1	70.3	70.6	70.6	70.8	70.8	70.9	71.1
≥ 1800	57.8	65.8	67.4	69.0	69.6	70.0	71.4	72.0	72.0	72.3	72.5	72.5	72.8	72.8	72.9	73.0
≥ 1500	60.6	69.1	70.7	72.5	73.3	73.6	75.1	75.8	75.8	76.1	76.3	76.3	76.6	76.6	76.7	76.8
≥ 1200	63.5	73.4	75.2	77.4	78.1	78.5	80.3	81.1	81.1	81.3	81.6	81.6	81.8	81.8	81.9	82.1
≥ 1000	64.7	75.2	77.3	79.6	80.7	81.2	83.0	83.9	83.9	84.4	84.6	84.6	84.9	84.9	85.0	85.1
≥ 900	65.0	75.5	77.5	79.9	81.1	81.6	83.4	84.2	84.2	84.7	85.0	85.0	85.2	85.2	85.3	85.5
≥ 800	65.3	75.9	78.0	80.5	82.3	82.9	84.7	85.6	85.6	86.1	86.3	86.3	86.6	86.6	86.7	86.8
≥ 700	65.8	76.6	78.6	81.6	83.5	84.4	86.6	87.4	87.4	88.0	88.3	88.3	88.5	88.5	88.6	88.8
≥ 600	65.9	76.7	78.8	81.7	83.9	84.7	87.1	88.0	88.0	88.8	89.0	89.0	89.3	89.3	89.4	89.5
≥ 500	66.1	77.0	79.1	82.1	84.5	85.3	88.0	89.1	89.1	91.0	91.3	91.3	91.6	91.6	91.7	91.8
≥ 400	66.1	77.0	79.1	82.2	84.9	85.7	88.8	90.0	90.0	92.1	92.6	92.6	92.8	92.8	92.9	93.0
≥ 300	66.1	77.3	79.4	82.4	85.1	86.0	89.3	90.8	90.8	93.9	94.4	94.4	94.9	94.9	95.1	95.6
≥ 200	66.1	77.3	79.4	82.4	85.1	86.0	89.4	91.1	91.1	95.0	95.5	95.5	96.6	96.6	97.4	98.3
≥ 100	66.1	77.3	79.4	82.4	85.1	86.0	89.4	91.1	91.1	95.0	95.5	95.5	96.8	96.8	98.2	100.0
≥ 0	66.1	77.3	79.4	82.4	85.1	86.0	89.4	91.1	91.1	95.0	95.5	95.5	96.8	96.8	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 819

USAF ETAC FORM JUL 84 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

77930

SEATTLE/TACOMA IAP, WA

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

		VISIBILITY - STATUTE MILES															
ELEVATION FEET		210	200	250	240	230	220	210	200	190	180	170	160	150	140	130	120
N	10000	24.8	26.3	26.6	26.8	27.3	27.6	28.0	28.1	28.1	28.3	28.3	28.3	28.6	28.6	28.7	28.7
	8000	27.9	29.7	30.3	30.5	31.0	31.5	32.1	32.2	32.2	32.7	32.7	32.7	33.0	33.0	33.1	33.1
N	6000	28.2	30.2	30.9	31.1	31.6	32.1	32.7	32.8	32.8	33.3	33.3	33.3	33.6	33.6	33.7	33.7
	4000	28.7	30.7	31.4	31.6	32.1	32.6	33.2	33.3	33.3	33.8	33.8	33.8	34.1	34.1	34.2	34.2
N	2000	30.0	32.2	33.0	33.2	33.7	34.2	34.8	34.9	34.9	35.4	35.4	35.4	35.6	35.6	35.8	35.8
	1000	33.2	35.4	36.4	36.7	37.2	37.7	38.3	38.4	38.4	38.9	38.9	38.9	39.2	39.2	39.3	39.3
N	8000	34.7	37.3	38.6	39.1	39.5	40.0	40.6	40.8	40.8	41.2	41.2	41.2	41.5	41.5	41.6	41.6
	6000	35.3	38.1	39.3	39.8	40.3	40.8	41.4	41.5	41.5	42.0	42.0	42.0	42.2	42.2	42.3	42.3
N	4000	36.1	38.9	40.1	40.6	41.1	41.6	42.2	42.3	42.3	42.8	42.8	42.8	43.1	43.1	43.2	43.2
	2000	37.7	40.5	41.7	42.2	42.7	43.2	43.8	43.9	43.9	44.4	44.4	44.4	44.6	44.6	44.8	44.8
N	1000	39.2	42.1	43.3	43.8	44.4	44.9	45.5	45.6	45.6	46.1	46.1	46.1	46.4	46.4	46.5	46.5
	8000	40.6	43.8	45.0	45.7	46.4	46.8	47.4	47.6	47.6	48.1	48.1	48.1	48.3	48.3	48.4	48.4
N	6000	42.3	45.6	46.8	47.6	48.2	48.7	49.3	49.4	49.4	49.9	49.9	49.9	50.1	50.1	50.2	50.2
	4000	44.5	48.3	49.5	50.2	50.9	51.3	51.9	52.1	52.1	52.6	52.6	52.6	52.8	52.8	52.9	52.9
N	2000	48.2	52.7	53.9	54.9	55.5	56.1	56.9	57.1	57.1	57.7	57.7	57.7	57.9	57.9	58.0	58.0
	1000	51.5	56.9	58.6	59.9	60.5	61.1	62.0	62.2	62.2	62.8	62.8	62.8	63.0	63.0	63.1	63.1
N	8000	55.8	62.8	64.5	66.1	66.8	67.4	68.5	68.6	68.6	69.3	69.3	69.3	69.6	69.6	69.7	69.7
	6000	59.4	68.4	70.2	72.1	72.9	73.5	74.7	74.8	74.8	75.7	75.7	75.7	75.9	75.9	76.0	76.0
N	4000	59.7	69.1	70.9	73.0	73.7	74.3	75.5	75.7	75.7	76.5	76.5	76.5	76.8	76.8	76.9	76.9
	2000	61.9	72.9	74.7	77.3	78.0	78.7	80.0	80.2	80.2	81.0	81.0	81.0	81.3	81.3	81.4	81.4
N	1000	63.6	75.8	77.7	80.9	82.1	82.8	84.3	84.4	84.4	85.4	85.4	85.4	85.6	85.6	85.8	85.8
	8000	64.5	77.0	79.4	82.8	84.5	85.3	86.9	87.1	87.1	88.2	88.2	88.2	88.4	88.4	88.6	88.6
N	6000	64.6	77.4	79.8	83.2	85.0	85.8	87.3	87.6	87.6	88.7	88.7	88.7	89.1	89.1	89.2	89.2
	4000	65.6	79.0	81.8	85.2	87.0	87.7	89.3	89.7	89.7	90.8	90.8	90.8	91.1	91.1	91.2	91.2
N	2000	65.8	79.3	82.1	85.6	87.5	88.2	90.0	90.4	90.4	91.6	91.6	91.6	92.1	92.1	92.2	92.2
	1000	65.8	79.3	82.4	86.0	88.1	88.9	91.0	91.4	91.4	92.7	92.7	92.7	93.2	93.2	93.3	93.3
N	8000	65.8	79.4	82.5	86.1	88.4	89.4	91.7	92.1	92.1	93.4	93.4	93.4	94.0	94.0	94.2	94.2
	6000	65.8	79.4	82.5	86.3	88.7	89.8	92.1	92.7	92.7	94.4	94.4	94.4	95.5	95.5	95.6	95.6
N	4000	65.8	79.4	82.5	86.3	88.7	89.8	92.6	93.4	93.4	95.6	96.4	96.4	97.6	97.6	97.9	97.9
	2000	65.8	79.4	82.5	86.3	88.8	89.9	92.7	93.6	93.6	96.1	97.0	97.0	98.5	98.5	99.1	99.3
N	1000	65.8	79.4	82.5	86.3	88.8	89.9	92.7	93.6	93.6	96.1	97.0	97.0	98.5	98.5	99.4	100.0
	8000	65.8	79.4	82.5	86.3	88.8	89.9	92.7	93.6	93.6	96.1	97.0	97.0	98.5	98.5	99.4	100.0



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 7930

SEATTLE/TACOMA IAP, WA

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY - STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO. CEILING	23.6	26.1	26.7	27.1	27.3	27.6	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.1	28.1
2 2000	25.3	28.3	29.0	29.5	29.8	30.0	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.5	30.5
2 1800	25.3	28.7	29.4	29.9	30.1	30.4	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.8	30.8
2 1600	25.5	28.9	29.6	30.1	30.4	30.6	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.1	31.1
2 1400	27.5	30.8	31.6	32.0	32.3	32.5	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	33.0	33.0
2 1200	29.8	33.1	33.9	34.3	34.6	34.8	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.4	35.4
2 1000	31.6	35.5	36.4	36.9	37.1	37.3	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	38.0	38.0
2 900	32.5	36.6	37.5	38.0	38.2	38.4	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	39.0	39.0
2 800	33.9	38.0	38.8	39.3	39.5	39.8	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.4	40.4
2 700	36.4	40.5	41.3	41.8	42.0	42.3	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.9	42.9
2 600	37.5	41.8	42.7	43.1	43.4	43.6	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.2	44.2
2 500	38.8	43.6	44.5	44.9	45.3	45.5	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.1	46.1
2 4500	40.2	45.2	46.0	46.5	47.1	47.3	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	48.0	48.0
2 4000	42.7	47.7	48.6	49.3	49.9	50.1	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.7	50.7
2 3500	45.9	51.4	52.4	54.1	54.7	54.9	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.7	55.7
2 3000	49.8	56.9	58.0	60.0	60.7	61.0	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.7	61.7
2 2500	54.2	62.9	64.2	66.6	67.3	67.6	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.6	68.6
2 2000	57.7	67.6	69.3	71.8	72.5	72.8	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.7	73.7
2 1800	59.3	69.8	71.7	74.2	74.9	75.2	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.1	76.1
2 1500	61.4	73.0	75.2	77.7	78.7	78.9	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	80.0	80.0
2 1200	64.2	76.3	78.6	81.3	82.3	82.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.9	83.9
2 1000	65.7	78.2	80.5	83.5	84.7	84.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.4	86.4
2 900	66.3	78.9	81.3	84.6	86.0	86.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.6	87.6
2 800	66.9	79.8	82.3	85.7	87.3	87.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	89.2	89.3
2 700	67.2	80.4	83.0	86.6	88.4	88.8	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.6	90.7
2 600	67.3	80.6	83.5	87.7	89.6	90.0	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	92.4	92.5
2 500	67.3	80.7	83.6	88.0	89.9	90.2	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	92.9	93.0
2 400	67.3	80.7	83.6	88.0	89.9	90.4	92.0	92.4	92.7	93.6	94.0	94.0	94.0	94.2	94.2	94.3
2 300	67.3	81.0	84.0	88.8	90.8	91.4	93.4	93.9	94.1	95.7	96.0	96.0	96.0	96.6	96.6	96.7
2 200	67.3	81.0	84.0	88.8	90.8	91.4	93.6	94.1	94.3	96.3	96.7	96.7	96.7	97.7	97.7	98.2
2 100	67.3	81.3	84.0	88.8	90.8	91.4	93.6	94.1	94.3	96.4	96.9	96.9	96.9	98.0	98.0	99.0
2 0	67.3	81.3	84.0	88.8	90.8	91.4	93.6	94.1	94.3	96.4	96.9	96.9	96.9	98.0	98.0	100.0

TOTAL NUMBER OF OBSERVATIONS 830

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 7930 SEATTLE/TACOMA IAP, WA

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

2100-2300

		USAFETAC															
		20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1	1000	25.2	27.7	27.8	28.5	28.9	28.9	29.3	29.3	29.3	29.4	29.4	29.4	29.4	29.4	29.5	29.5
2	900	26.7	29.9	30.1	30.8	31.2	31.2	31.6	31.6	31.6	31.7	31.7	31.7	31.7	31.7	31.8	31.8
3	800	26.8	30.1	30.4	31.1	31.4	31.4	31.8	31.8	31.8	31.9	31.9	31.9	31.9	31.9	32.0	32.0
4	700	27.2	30.5	30.7	31.4	31.8	31.8	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.4	32.4
5	600	27.9	31.2	31.4	32.2	32.5	32.5	32.9	32.9	32.9	33.0	33.0	33.0	33.0	33.0	33.1	33.1
6	500	30.2	33.5	33.7	34.6	34.9	34.9	35.3	35.3	35.3	35.4	35.4	35.4	35.4	35.4	35.6	35.6
7	400	31.6	35.1	35.4	36.3	36.6	36.6	37.0	37.0	37.0	37.1	37.1	37.1	37.2	37.2	37.4	37.4
8	300	32.9	36.8	37.1	38.0	38.3	38.3	38.7	38.7	38.7	38.8	38.8	38.8	38.9	38.9	39.1	39.1
9	200	33.4	37.2	37.6	38.5	38.8	38.8	39.2	39.2	39.2	39.3	39.3	39.3	39.4	39.4	39.5	39.5
10	100	36.4	40.4	40.7	41.6	42.0	42.0	42.3	42.3	42.3	42.4	42.4	42.4	42.6	42.6	42.7	42.7
11	50	37.2	41.2	41.7	42.6	42.9	42.9	43.3	43.3	43.3	43.4	43.4	43.4	43.5	43.5	43.7	43.7
12	25	39.7	44.3	44.9	45.8	46.2	46.2	46.6	46.6	46.6	46.7	46.7	46.7	46.8	46.8	46.9	46.9
13	10	41.7	46.4	47.0	48.0	48.4	48.4	48.7	48.7	48.7	48.9	48.9	48.9	49.0	49.0	49.1	49.1
14	5	44.5	49.2	49.8	50.8	51.1	51.1	51.5	51.5	51.5	51.6	51.6	51.6	51.8	51.8	51.9	51.9
15	2	47.6	53.6	54.5	55.7	56.1	56.1	56.5	56.5	56.5	56.6	56.6	56.6	56.7	56.7	56.8	56.8
16	1	50.7	57.4	58.8	60.0	60.3	60.3	60.8	60.8	60.8	61.1	61.1	61.1	61.2	61.2	61.3	61.3
17	0.5	54.4	62.9	64.6	66.0	66.4	66.4	66.9	66.9	66.9	67.1	67.1	67.1	67.2	67.2	67.4	67.4
18	0.2	58.5	68.1	70.1	72.3	72.9	72.9	73.4	73.4	73.4	73.8	73.8	73.8	73.9	73.9	74.0	74.0
19	0.1	60.2	70.5	72.7	75.1	75.7	75.7	76.2	76.3	76.3	76.7	76.7	76.7	76.8	76.8	76.9	76.9
20	0.05	62.4	73.2	75.7	78.2	78.8	78.8	79.4	79.6	79.6	80.0	80.0	80.0	80.2	80.2	80.3	80.3
21	0.02	65.2	76.7	79.3	81.9	82.6	82.6	83.3	83.4	83.4	83.9	83.9	83.9	84.0	84.0	84.2	84.2
22	0.01	66.7	78.5	81.3	83.9	84.6	84.6	85.4	86.0	86.0	86.5	86.5	86.5	86.6	86.6	86.7	86.7
23	0.005	67.2	79.0	81.7	84.5	85.2	85.2	86.0	86.6	86.6	87.1	87.1	87.1	87.2	87.2	87.3	87.3
24	0.002	67.6	79.6	82.3	85.2	86.0	86.0	86.7	87.3	87.3	87.8	87.9	87.9	88.0	88.0	88.1	88.1
25	0.001	67.7	79.8	82.6	85.5	86.2	86.2	86.9	87.5	87.5	88.1	88.3	88.3	88.4	88.4	88.5	88.5
26	0.0005	68.1	80.8	83.7	86.6	87.5	87.5	88.4	89.0	89.0	89.7	89.8	89.8	90.0	90.0	90.2	90.2
27	0.0002	68.1	80.9	84.0	87.1	88.0	88.0	88.9	89.5	89.5	90.2	90.3	90.3	90.4	90.4	90.7	90.7
28	0.0001	68.1	81.3	84.4	87.7	89.2	89.2	90.6	91.2	91.2	92.1	92.7	92.7	92.9	92.9	93.1	93.1
29	0.00005	68.1	81.3	84.5	87.9	89.6	89.6	91.7	92.4	92.4	93.8	94.4	94.4	94.7	94.7	94.9	94.9
30	0.00002	68.1	81.4	84.8	88.1	89.8	89.8	92.3	93.1	93.1	95.2	95.9	95.9	96.1	96.1	96.9	97.1
31	0.00001	68.1	81.4	84.8	88.1	89.8	89.8	92.3	93.1	93.1	95.3	96.3	96.3	96.7	96.7	98.3	99.9
32	0.000005	68.1	81.4	84.8	88.1	89.8	89.8	92.3	93.1	93.1	95.3	96.3	96.3	96.7	96.7	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS 827



GLOBAL CLIMATOLOGY BRANCH  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

7 793 SEATTLE/TACOMA IAP, WA

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
 FROM HOURLY OBSERVATIONS

ALL

		VISIBILITY - STATUTE MILES																				
		2.5	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
1-1000	23.0	25.2	25.7	26.5	26.6	26.7	27.0	27.0	27.0	27.1	27.2	27.2	27.3	27.3	27.5	27.7						
1-1000	25.2	27.7	28.3	29.1	29.3	29.4	29.7	29.8	29.8	29.9	30.0	30.0	30.1	30.1	30.3	30.6						
1-1000	25.4	28.0	28.7	29.5	29.6	29.7	30.1	30.1	30.1	30.3	30.3	30.3	30.5	30.5	30.6	30.9						
1-1000	25.8	28.4	29.1	29.9	30.1	30.2	30.5	30.6	30.6	30.8	30.8	30.8	30.9	30.9	31.1	31.4						
1-1000	27.1	29.7	30.4	31.3	31.4	31.6	31.9	32.0	32.0	32.1	32.2	32.2	32.3	32.3	32.5	32.8						
1-1000	29.2	32.0	32.8	33.7	33.8	34.0	34.4	34.4	34.4	34.6	34.6	34.6	34.8	34.8	34.9	35.3						
2-1000	31.1	34.1	34.9	35.9	36.1	36.2	36.6	36.6	36.6	36.8	36.8	36.8	37.0	37.0	37.2	37.5						
2-1000	32.1	35.2	36.0	37.0	37.1	37.3	37.7	37.8	37.8	38.0	38.0	38.0	38.2	38.2	38.3	38.7						
2-1000	33.1	36.1	37.0	38.0	38.1	38.3	38.7	38.8	38.8	39.0	39.0	39.0	39.2	39.2	39.3	39.7						
2-1000	35.0	38.1	39.1	40.0	40.2	40.4	40.8	40.9	40.9	41.0	41.1	41.1	41.3	41.3	41.4	41.8						
2-1000	36.0	39.2	40.2	41.1	41.3	41.5	41.9	42.0	42.0	42.1	42.2	42.2	42.4	42.4	42.5	42.9						
2-1000	38.0	41.6	42.6	43.7	43.9	44.0	44.5	44.5	44.5	44.7	44.8	44.8	45.0	45.0	45.1	45.5						
2-1000	39.4	43.4	44.4	45.5	45.7	45.9	46.3	46.4	46.4	46.6	46.6	46.6	46.8	46.8	47.0	47.3						
2-1000	41.7	45.9	46.9	48.1	48.4	48.5	49.0	49.1	49.1	49.3	49.3	49.3	49.5	49.5	49.7	50.0						
2-1000	44.6	49.4	50.5	51.9	52.3	52.4	52.9	53.0	53.0	53.2	53.2	53.2	53.4	53.4	53.6	53.9						
2-1000	47.9	53.7	55.3	56.9	57.3	57.5	58.0	58.1	58.1	58.4	58.4	58.4	58.6	58.6	58.8	59.1						
2-1000	51.8	58.8	60.7	62.6	63.1	63.3	64.0	64.1	64.1	64.4	64.4	64.4	64.6	64.6	64.8	65.1						
2-1000	55.2	63.7	65.9	68.2	68.9	69.1	69.9	70.0	70.0	70.3	70.4	70.4	70.6	70.6	70.8	71.1						
2-1000	56.4	65.6	67.9	70.4	71.1	71.3	72.1	72.3	72.3	72.6	72.7	72.7	72.9	72.9	73.0	73.4						
2-1000	58.6	68.7	71.2	74.0	74.8	75.0	75.9	76.1	76.1	76.6	76.6	76.6	76.8	76.8	77.0	77.3						
2-1000	61.1	72.3	74.9	78.0	79.0	79.2	80.4	80.6	80.6	81.0	81.0	81.0	81.3	81.3	81.4	81.8						
2-1000	62.5	74.4	77.3	80.5	81.7	82.0	83.1	83.4	83.4	84.0	84.0	84.0	84.2	84.2	84.4	84.8						
2-1000	63.0	75.1	78.0	81.3	82.6	82.9	84.1	84.4	84.4	84.9	85.0	85.0	85.2	85.2	85.4	85.7						
2-1000	63.6	75.9	78.9	82.3	83.8	84.0	85.3	85.6	85.6	86.2	86.2	86.2	86.5	86.5	86.7	87.0						
2-1000	64.0	76.5	79.5	83.1	84.6	84.9	86.2	86.6	86.6	87.2	87.3	87.3	87.5	87.5	87.8	88.1						
2-1000	64.3	77.2	80.3	84.1	85.8	86.2	87.7	88.1	88.1	88.8	88.9	88.9	89.2	89.2	89.4	89.8						
2-1000	64.4	77.5	80.7	84.6	86.4	86.8	88.4	88.8	88.8	89.7	89.8	89.8	90.1	90.1	90.4	90.7						
2-1000	64.4	77.7	81.0	85.0	87.0	87.3	89.2	89.8	89.9	91.0	91.2	91.2	91.6	91.6	91.9	92.2						
2-1000	64.4	77.8	81.2	85.4	87.5	87.9	90.3	91.0	91.1	92.7	93.0	93.0	93.6	93.6	94.0	94.4						
2-1000	64.4	77.8	81.3	85.6	87.7	88.1	90.7	91.6	91.6	93.8	94.2	94.2	95.3	95.3	96.0	96.9						
2-1000	64.4	77.8	81.3	85.6	87.7	88.1	90.8	91.7	91.7	94.0	94.5	94.5	96.0	96.0	97.3	99.6						
2-1000	64.4	77.8	81.3	85.6	87.7	88.1	90.8	91.7	91.7	94.0	94.5	94.5	96.0	96.0	97.4	100.0						

TOTAL NUMBER OF OBSERVATIONS 6582



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7/23/77 SEATTLE/TACOMA IAP, WA

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0000-0200

		VISIBILITY - STATUTE MILES															
CEILING FEET		20	26	31	34	37	40	45	50	55	60	65	70	75	80	85	90
N	10000	20.1	23.0	23.9	24.5	24.8	24.8	24.8	24.9	24.9	24.9	24.9	24.9	25.0	25.0	25.0	25.0
N	9000	23.0	26.2	27.1	27.7	27.9	27.9	27.9	28.1	28.1	28.1	28.1	28.1	28.2	28.2	28.2	28.2
N	8000	23.2	26.5	27.3	27.9	28.2	28.2	28.2	28.3	28.3	28.3	28.3	28.3	28.5	28.5	28.5	28.5
N	7000	23.2	26.5	27.3	27.9	28.2	28.2	28.2	28.3	28.3	28.3	28.3	28.3	28.5	28.5	28.5	28.5
N	6000	24.5	27.8	28.6	29.3	29.5	29.5	29.5	29.7	29.7	29.7	29.7	29.7	29.8	29.8	29.8	29.8
N	5000	26.6	29.9	30.7	31.4	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.9	31.9	31.9	31.9
N	4000	29.9	33.4	34.2	34.8	35.1	35.1	35.1	35.2	35.2	35.2	35.2	35.2	35.4	35.4	35.4	35.4
N	3000	30.6	34.0	34.8	35.5	35.8	35.8	35.8	35.9	35.9	35.9	35.9	35.9	36.0	36.0	36.0	36.0
N	2000	31.7	35.1	35.9	36.6	36.8	36.8	36.8	37.0	37.0	37.0	37.0	37.0	37.1	37.1	37.1	37.1
N	1000	33.6	37.2	38.0	38.7	38.9	38.9	38.9	39.1	39.1	39.1	39.1	39.1	39.2	39.2	39.2	39.2
N	5000	35.1	38.7	39.5	40.1	40.4	40.4	40.4	40.5	40.5	40.5	40.5	40.5	40.7	40.7	40.7	40.7
N	1000	39.2	43.3	44.1	44.9	45.2	45.2	45.2	45.3	45.3	45.3	45.3	45.3	45.4	45.4	45.4	45.4
N	4000	41.9	46.6	47.4	48.1	48.7	48.7	48.7	48.9	48.9	48.9	48.9	48.9	49.0	49.0	49.0	49.0
N	4000	43.4	48.5	49.3	50.2	50.6	50.6	50.6	50.7	50.7	50.7	50.7	50.7	50.9	50.9	50.9	50.9
N	3500	46.4	51.8	52.8	54.2	54.7	54.7	54.8	55.0	55.0	55.0	55.0	55.0	55.1	55.1	55.1	55.1
N	3000	53.0	59.2	60.4	62.1	62.8	62.8	62.9	63.2	63.2	63.2	63.2	63.2	63.3	63.3	63.3	63.3
N	2500	57.7	65.6	66.9	69.1	69.8	69.8	69.9	70.2	70.2	70.2	70.2	70.2	70.3	70.3	70.3	70.3
N	2000	62.4	72.1	73.9	76.2	77.0	77.0	77.1	77.4	77.4	77.4	77.4	77.4	77.5	77.5	77.5	77.5
N	1800	64.1	74.0	76.0	78.3	79.1	79.1	79.2	79.5	79.5	79.5	79.5	79.5	79.6	79.6	79.6	79.6
N	1500	67.8	79.1	81.1	83.3	84.1	84.1	84.5	84.8	84.8	84.8	84.8	84.8	84.9	84.9	84.9	84.9
N	1200	70.5	82.9	85.3	87.9	88.9	88.9	89.3	89.5	89.5	89.5	89.5	89.5	89.7	89.7	89.7	89.7
N	1000	71.0	83.6	86.2	88.9	89.8	89.8	90.2	90.6	90.6	90.7	90.7	90.7	90.9	90.9	90.9	90.9
N	900	71.1	84.1	86.8	89.4	90.5	90.5	90.9	91.3	91.3	91.4	91.4	91.4	91.5	91.5	91.5	91.5
N	800	71.1	84.5	87.4	90.1	91.3	91.3	91.7	92.1	92.1	92.2	92.2	92.2	92.3	92.3	92.3	92.3
N	700	71.5	85.6	88.7	91.5	92.7	92.7	93.4	93.8	93.8	93.9	93.9	93.9	94.0	94.0	94.0	94.0
N	600	71.9	86.1	89.3	92.3	93.5	93.5	94.6	95.0	95.0	95.1	95.1	95.1	95.2	95.2	95.2	95.2
N	500	72.1	86.2	89.5	92.6	93.8	93.8	95.1	95.5	95.5	95.6	95.6	95.6	95.8	95.8	95.8	95.8
N	400	72.1	86.2	89.5	92.7	93.9	94.0	95.5	95.9	95.9	96.2	96.2	96.2	96.3	96.3	96.3	96.3
N	300	72.1	86.2	89.5	93.1	94.4	94.6	96.2	96.6	96.6	97.4	97.5	97.5	97.6	97.6	97.6	97.6
N	200	72.1	86.2	89.5	93.1	94.4	94.6	96.3	96.7	96.7	97.6	97.7	97.7	97.7	98.4	98.4	98.5
N	100	72.1	86.2	89.5	93.1	94.4	94.6	96.3	96.7	96.7	97.6	97.7	97.7	97.7	98.4	98.4	98.5
N	0	72.1	86.2	89.5	93.1	94.4	94.6	96.3	96.7	96.7	97.6	97.7	97.7	97.7	98.4	98.4	98.5



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFM WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 7937 SEATTLE/TACOMA IAP, WA

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

NO. CEILING FEET	VISIBILITY - STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥ 20000	16.9	18.5	18.9	18.9	18.9	18.9	19.2	19.2	19.2	19.5	19.6	19.6	19.9	19.9	20.4	20.5
≥ 18000	18.7	20.9	21.5	21.5	21.5	21.5	21.7	21.7	21.7	22.0	22.1	22.1	22.4	22.4	22.9	23.1
≥ 16000	18.7	20.9	21.5	21.6	21.6	21.6	21.9	21.9	21.9	22.1	22.3	22.3	22.5	22.5	23.1	23.2
≥ 14000	19.2	21.5	22.0	22.1	22.1	22.1	22.4	22.4	22.4	22.7	22.8	22.8	23.1	23.1	23.6	23.7
≥ 12000	20.1	23.1	23.6	23.7	23.7	23.7	24.0	24.0	24.0	24.3	24.4	24.4	24.7	24.7	25.2	25.3
≥ 10000	22.5	25.6	26.1	26.3	26.3	26.3	26.5	26.5	26.5	26.8	26.9	26.9	27.2	27.2	27.7	27.9
≥ 9000	25.6	28.8	29.3	29.5	29.5	29.5	29.7	29.7	29.7	30.0	30.1	30.1	30.4	30.4	30.9	31.1
≥ 8000	26.7	29.9	30.4	30.5	30.5	30.5	30.8	30.8	30.8	31.1	31.2	31.2	31.5	31.5	32.0	32.1
≥ 7000	27.6	30.9	31.5	31.6	31.6	31.6	31.9	31.9	31.9	32.1	32.3	32.3	32.5	32.5	33.1	33.2
≥ 6000	28.9	32.5	33.1	33.2	33.2	33.2	33.5	33.5	33.5	33.7	33.9	33.9	34.1	34.1	34.9	35.1
≥ 5000	31.1	34.8	35.3	35.5	35.5	35.5	35.7	35.7	35.7	36.0	36.1	36.1	36.4	36.4	37.2	37.3
≥ 4500	36.4	40.8	41.5	41.7	41.7	41.7	42.0	42.0	42.0	42.3	42.4	42.4	42.7	42.7	43.5	43.6
≥ 4000	39.3	44.0	44.7	45.1	45.1	45.1	45.3	45.3	45.3	45.6	45.7	45.7	46.0	46.0	46.8	46.9
≥ 3500	41.5	46.3	46.9	47.5	47.5	47.5	47.7	47.7	47.7	48.0	48.1	48.1	48.4	48.4	49.2	49.3
≥ 3000	43.7	48.9	49.7	50.3	50.3	50.3	50.5	50.5	50.5	50.8	50.9	50.9	51.2	51.2	52.0	52.1
≥ 2500	50.1	56.7	57.9	58.4	58.7	58.7	58.9	59.1	59.1	59.3	59.5	59.5	59.7	59.7	60.5	60.7
≥ 2000	53.9	61.7	63.6	64.3	64.5	64.5	64.8	64.9	64.9	65.2	65.3	65.3	65.6	65.6	66.4	66.5
≥ 1800	58.5	68.4	70.9	71.6	71.9	71.9	72.1	72.3	72.3	72.5	72.7	72.7	72.9	72.9	73.7	73.9
≥ 1600	60.7	71.5	74.1	74.8	75.2	75.2	75.5	75.6	75.6	75.9	76.0	76.0	76.3	76.3	77.1	77.2
≥ 1400	62.8	74.0	76.8	77.6	78.0	78.0	78.3	78.4	78.4	78.8	78.9	78.9	79.2	79.2	80.0	80.1
≥ 1200	67.2	79.2	82.1	83.1	83.6	83.6	83.9	84.0	84.0	84.4	84.5	84.5	84.8	84.8	85.6	85.7
≥ 1000	68.3	80.8	83.9	85.1	85.6	85.6	86.0	86.1	86.1	86.5	86.7	86.7	86.9	86.9	87.7	87.9
≥ 900	68.8	81.7	84.8	86.3	86.9	86.9	87.3	87.5	87.5	87.9	88.0	88.0	88.3	88.3	89.1	89.2
≥ 800	69.1	82.3	85.3	86.8	87.5	87.5	88.0	88.1	88.1	88.5	88.7	88.7	88.9	88.9	89.7	89.9
≥ 700	69.3	82.9	86.1	87.6	88.5	88.5	89.1	89.2	89.2	89.6	89.7	89.7	90.0	90.0	90.8	90.9
≥ 600	69.6	83.6	86.8	88.3	89.3	89.3	90.1	90.3	90.3	90.7	90.8	90.8	91.1	91.1	91.9	92.0
≥ 500	69.7	83.9	87.2	88.9	90.3	90.3	91.3	91.5	91.5	92.1	92.5	92.5	93.1	93.1	93.9	94.0
≥ 400	69.9	84.0	87.3	89.1	90.7	90.7	91.7	92.0	92.0	92.9	93.5	93.5	94.1	94.1	95.1	95.2
≥ 300	69.9	84.0	87.3	89.1	90.7	90.7	92.3	92.5	92.5	93.9	94.5	94.5	95.2	95.2	96.7	97.1
≥ 200	69.9	84.0	87.3	89.1	90.7	90.7	92.3	92.5	92.5	94.0	94.7	94.7	95.5	95.5	98.1	99.2
≥ 100	69.9	84.0	87.3	89.1	90.7	90.7	92.3	92.5	92.5	94.0	94.7	94.7	95.5	95.5	98.1	100.0
≥ 0	69.9	84.0	87.3	89.1	90.7	90.7	92.3	92.5	92.5	94.0	94.7	94.7	95.5	95.5	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 750



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

707930

SEATTLE/TACOMA IAP, WA

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0600-0800

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO. CEILING	15.4	16.7	16.8	16.8	16.8	16.8	17.1	17.1	17.1	17.4	17.4	17.4	17.4	17.4	17.6	17.9
≥ 20000	17.1	18.7	18.9	18.9	18.9	18.9	19.1	19.1	19.1	19.4	19.4	19.4	19.4	19.4	19.7	19.9
18000	17.5	19.1	19.3	19.3	19.3	19.3	19.5	19.5	19.5	19.8	19.8	19.8	19.8	19.8	20.1	20.3
16000	17.9	19.7	19.9	19.9	19.9	19.9	20.2	20.2	20.2	20.5	20.5	20.5	20.5	20.5	20.7	21.0
14000	19.7	21.7	21.9	21.9	21.9	21.9	22.2	22.2	22.2	22.5	22.5	22.5	22.5	22.6	22.9	23.1
12000	20.9	23.1	23.5	23.5	23.5	23.5	23.8	23.8	23.8	24.1	24.1	24.1	24.2	24.2	24.5	24.7
10000	22.3	25.3	25.7	25.7	25.7	25.7	25.9	25.9	25.9	26.2	26.2	26.2	26.3	26.3	26.6	26.9
9000	23.0	26.1	26.5	26.5	26.5	26.5	26.7	26.7	26.7	27.0	27.0	27.0	27.1	27.1	27.4	27.7
8000	26.1	29.5	29.9	29.9	29.9	29.9	30.2	30.2	30.2	30.5	30.5	30.5	30.6	30.6	30.9	31.1
7000	28.1	31.8	32.2	32.2	32.2	32.2	32.5	32.5	32.5	32.9	32.9	32.9	33.2	33.2	33.6	33.8
6000	29.7	33.8	34.4	34.4	34.4	34.4	34.6	34.6	34.6	35.0	35.0	35.0	35.3	35.3	35.7	36.0
5000	31.7	36.0	36.6	36.6	36.6	36.6	36.9	36.9	36.9	37.3	37.3	37.3	37.6	37.6	38.0	38.2
4500	34.0	38.4	39.0	39.0	39.0	39.0	39.3	39.3	39.3	39.7	39.7	39.7	40.0	40.0	40.4	40.6
4000	37.4	42.0	42.8	42.8	42.8	42.8	43.0	43.0	43.0	43.4	43.4	43.4	43.7	43.7	44.1	44.4
3500	41.4	46.3	47.2	47.2	47.2	47.2	47.7	47.7	47.7	48.3	48.3	48.3	48.5	48.5	49.1	49.3
3000	45.7	51.5	52.5	52.5	52.5	52.5	53.1	53.1	53.1	53.6	53.6	53.6	53.9	53.9	54.4	54.7
2500	50.3	57.5	59.0	59.5	59.5	59.5	59.9	59.9	59.9	60.4	60.4	60.4	60.7	60.7	61.2	61.5
2000	54.4	63.6	65.2	66.4	66.6	66.6	66.8	66.8	66.8	67.4	67.4	67.4	67.6	67.6	68.2	68.6
1800	56.4	66.4	68.3	69.8	70.2	70.2	70.5	70.5	70.5	71.0	71.0	71.0	71.3	71.3	71.8	72.2
1500	59.2	70.6	72.9	74.6	75.1	75.1	75.4	75.4	75.4	76.1	76.1	76.1	76.3	76.3	76.9	77.3
1200	63.5	75.9	78.3	80.3	80.9	80.9	81.1	81.3	81.3	81.8	81.8	81.8	82.1	82.1	82.6	83.0
1000	64.7	78.2	80.6	82.8	83.3	83.3	83.7	83.8	83.8	84.4	84.4	84.4	84.6	84.6	85.2	85.6
900	64.7	78.4	81.0	83.3	83.8	83.8	84.4	84.5	84.5	85.0	85.0	85.0	85.3	85.3	85.8	86.2
800	65.8	79.8	82.2	84.6	85.2	85.3	85.8	86.0	86.0	86.5	86.5	86.5	86.8	86.8	87.3	87.7
700	65.8	80.2	82.8	85.0	85.7	85.8	86.4	86.6	86.6	87.2	87.2	87.2	87.4	87.4	88.0	88.4
600	66.2	81.0	84.0	86.5	87.3	87.4	88.2	88.5	88.5	89.2	89.2	89.2	89.4	89.4	90.0	90.4
500	66.2	81.1	84.1	86.8	87.6	87.7	88.5	88.8	88.8	89.6	89.6	89.6	89.8	89.8	90.4	90.8
400	66.3	81.4	84.6	87.6	88.9	89.3	90.8	91.2	91.2	92.1	92.2	92.2	92.5	92.5	93.0	93.4
300	66.3	81.8	85.3	88.4	89.8	90.5	92.1	92.5	92.5	93.4	93.6	93.6	94.0	94.0	94.9	95.3
200	66.3	81.8	85.3	88.4	89.8	90.5	92.4	92.8	92.8	93.7	94.1	94.1	94.8	94.8	96.1	97.5
100	66.3	81.8	85.3	88.4	89.8	90.5	92.4	92.8	92.8	93.7	94.3	94.3	95.2	95.2	96.9	99.2
0	66.3	81.8	85.3	88.4	89.8	90.5	92.4	92.8	92.8	93.7	94.3	94.3	95.2	95.2	96.9	100.0

TOTAL NUMBER OF OBSERVATIONS 748

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

707930 SEATTLE/TACOMA IAP, WA

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING	18.1	18.9	19.3	19.7	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.5	20.5	20.8
≥ 20000	22.1	22.9	23.3	23.7	24.1	24.3	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.7	24.7	25.1
≥ 18000	22.3	23.1	23.5	23.9	24.3	24.4	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.8	24.8	25.2
≥ 16000	22.4	23.5	23.9	24.3	24.7	24.8	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.2	25.2	25.6
≥ 14000	23.7	24.9	25.3	25.7	26.1	26.3	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.8	26.8	27.2
≥ 12000	28.0	29.2	29.6	30.0	30.4	30.5	30.8	30.8	30.8	30.8	30.8	30.8	30.8	31.1	31.1	31.5
≥ 10000	30.5	32.0	32.5	33.2	33.6	33.7	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.3	34.3	34.7
≥ 9000	31.9	33.5	34.0	34.7	35.1	35.2	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.7	35.7	36.1
≥ 8000	33.5	35.1	35.6	36.3	36.7	36.8	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.3	37.3	37.7
≥ 7000	35.1	36.9	37.5	38.1	38.5	38.7	38.9	38.9	38.9	38.9	38.9	38.9	38.9	39.2	39.2	39.6
≥ 6000	36.5	38.4	39.1	39.7	40.1	40.3	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.8	40.8	41.2
≥ 5000	40.4	42.8	43.5	44.1	44.5	44.7	44.9	44.9	44.9	44.9	44.9	44.9	44.9	45.2	45.2	45.6
≥ 4500	42.9	45.3	46.0	46.7	47.1	47.3	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.9	47.9	48.3
≥ 4000	46.1	48.7	49.3	50.0	50.4	50.7	50.9	50.9	50.9	50.9	50.9	50.9	50.9	51.3	51.3	51.7
≥ 3500	49.5	52.5	53.2	53.9	54.4	54.7	54.9	54.9	54.9	54.9	54.9	54.9	54.9	55.3	55.3	55.7
≥ 3000	54.4	58.5	59.3	60.1	60.7	60.9	61.3	61.3	61.3	61.3	61.5	61.5	61.5	61.9	61.9	62.3
≥ 2500	59.6	64.7	66.1	66.9	67.5	67.7	68.1	68.1	68.1	68.3	68.3	68.3	68.3	68.7	68.7	69.1
≥ 2000	62.5	68.5	70.4	71.5	72.1	72.5	72.9	72.9	73.1	73.1	73.1	73.1	73.1	73.5	73.5	73.9
≥ 1800	64.1	71.7	73.6	74.9	75.6	76.0	76.4	76.4	76.4	76.5	76.5	76.5	76.5	76.9	76.9	77.3
≥ 1500	67.1	75.7	77.7	79.1	79.9	80.3	80.7	80.8	80.8	80.9	80.9	80.9	80.9	81.3	81.3	81.7
≥ 1200	69.6	79.2	81.3	83.3	84.4	84.9	85.7	86.0	86.0	86.1	86.1	86.1	86.1	86.5	86.5	86.9
≥ 1000	70.9	81.1	83.3	85.7	86.9	87.5	88.5	88.9	88.9	89.1	89.1	89.1	89.1	89.5	89.5	89.9
≥ 900	71.3	82.0	84.3	86.7	88.0	88.5	89.6	90.0	90.0	90.1	90.1	90.1	90.1	90.5	90.5	90.9
≥ 800	71.3	82.1	84.4	86.8	88.1	88.7	89.7	90.1	90.1	90.4	90.4	90.4	90.4	90.8	90.8	91.2
≥ 700	71.6	82.5	84.9	87.5	89.1	89.6	90.7	91.1	91.1	91.3	91.3	91.3	91.3	91.7	91.7	92.1
≥ 600	71.6	83.1	85.7	88.3	90.0	90.7	91.7	92.4	92.4	92.8	92.8	92.8	92.8	93.2	93.2	93.6
≥ 500	71.7	83.5	86.1	88.7	90.5	91.2	92.3	93.2	93.2	93.7	93.7	93.7	93.7	94.1	94.1	94.5
≥ 400	71.9	83.7	86.4	88.9	90.8	91.5	92.5	93.5	93.5	94.4	94.4	94.4	94.4	95.1	95.1	95.5
≥ 300	71.9	83.7	86.4	88.9	90.8	91.5	92.5	93.5	93.5	94.4	94.4	94.4	94.4	95.1	95.1	95.5
≥ 200	71.9	83.7	86.4	89.1	90.9	91.6	93.1	94.1	94.1	95.6	95.6	95.6	95.6	96.0	96.0	96.3
≥ 100	71.9	83.7	86.4	89.1	90.9	91.6	93.1	94.1	94.1	95.6	95.6	95.6	95.6	96.0	96.0	96.3
≥ 0	71.9	83.7	86.4	89.1	90.9	91.6	93.1	94.1	94.1	95.6	95.6	95.6	95.6	96.0	96.0	96.3

TOTAL NUMBER OF OBSERVATIONS 750

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

707930 SEATTLE/TACOMA IAP, WA

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .03	≥ .01
NO CEILING	19.7	21.0	22.1	22.3	22.5	22.7	23.1	23.1	23.1	23.2	23.2	23.2	23.2	23.2	23.2	23.2
≥ 20000	24.5	25.9	26.9	27.1	27.3	27.5	27.9	27.9	27.9	28.0	28.0	28.0	28.0	28.2	28.2	28.2
W 18000	24.8	26.1	27.2	27.3	27.6	27.7	28.2	28.2	28.2	28.3	28.3	28.3	28.3	28.4	28.4	28.4
W 16000	25.3	26.7	27.7	27.9	28.2	28.3	28.7	28.7	28.7	28.8	28.8	28.8	29.0	29.0	29.0	29.0
W 14000	28.2	29.5	30.6	30.7	31.0	31.1	31.5	31.5	31.5	31.6	31.6	31.6	31.8	31.8	31.8	31.8
W 12000	31.6	33.0	34.0	34.2	34.5	34.6	35.0	35.0	35.0	35.1	35.1	35.1	35.3	35.3	35.3	35.3
W 10000	34.2	35.7	36.7	37.1	37.4	37.5	37.9	37.9	37.9	38.1	38.1	38.1	38.2	38.2	38.2	38.2
W 9000	35.7	37.1	38.2	38.6	38.9	39.0	39.4	39.4	39.4	39.5	39.5	39.5	39.7	39.7	39.7	39.7
W 8000	37.7	39.1	40.2	40.6	40.9	41.0	41.4	41.4	41.4	41.6	41.6	41.6	41.7	41.7	41.7	41.7
W 7000	39.8	41.4	42.5	42.9	43.2	43.3	43.7	43.7	43.7	43.8	43.8	43.8	44.0	44.0	44.0	44.0
W 6000	41.4	43.0	44.1	44.5	44.8	44.9	45.3	45.3	45.3	45.4	45.4	45.4	45.6	45.6	45.6	45.6
W 5000	44.8	47.1	48.1	48.5	48.8	48.9	49.3	49.3	49.3	49.5	49.5	49.5	49.6	49.6	49.6	49.6
W 4500	47.1	49.6	50.8	51.2	51.5	51.6	52.0	52.0	52.0	52.3	52.3	52.3	52.4	52.4	52.4	52.4
W 4000	50.5	53.4	54.7	55.1	55.4	55.5	55.9	55.9	55.9	56.2	56.2	56.2	56.3	56.3	56.3	56.3
W 3500	53.4	57.2	59.1	59.5	59.8	59.9	60.5	60.5	60.5	60.9	60.9	60.9	61.0	61.0	61.0	61.0
W 3000	59.4	63.9	65.8	66.4	66.6	66.8	67.3	67.3	67.3	67.7	67.7	67.7	67.8	67.8	67.8	67.8
W 2500	64.2	70.6	72.7	73.2	73.5	73.6	74.3	74.3	74.3	74.7	74.7	74.7	74.8	74.8	74.8	74.8
W 2000	70.0	77.5	79.5	80.2	80.4	80.6	81.4	81.5	81.5	81.9	81.9	81.9	82.0	82.0	82.0	82.0
W 1800	71.6	79.9	81.9	82.6	82.8	83.0	83.8	83.9	83.9	84.3	84.3	84.3	84.5	84.5	84.5	84.5
W 1500	73.5	82.2	84.2	84.9	85.3	85.5	86.3	86.5	86.5	86.9	86.9	86.9	87.0	87.0	87.0	87.0
W 1200	74.9	84.2	86.3	87.4	87.8	88.1	88.9	89.0	89.0	89.7	89.7	89.7	89.8	89.8	89.8	89.8
W 1000	75.7	85.3	87.4	88.7	89.1	89.7	90.8	91.0	91.0	91.8	91.8	91.8	92.0	92.0	92.0	92.0
W 900	75.9	86.1	88.2	89.5	90.2	90.9	92.0	92.2	92.2	93.0	93.2	93.2	93.3	93.3	93.3	93.3
W 800	76.0	86.5	88.6	89.9	90.6	91.3	92.4	92.6	92.6	93.7	93.8	93.8	94.0	94.0	94.0	94.0
W 700	76.3	86.9	89.0	90.5	91.3	92.0	93.2	93.4	93.4	94.5	94.6	94.6	94.8	94.8	94.8	94.8
W 600	76.5	87.7	89.9	91.7	92.5	93.3	94.6	94.9	94.9	96.1	96.2	96.2	96.4	96.4	96.4	96.4
W 500	76.5	87.8	90.1	91.8	92.6	93.4	94.8	95.0	95.0	96.2	96.4	96.4	96.5	96.5	96.5	96.5
W 400	76.5	87.8	90.2	92.0	92.9	93.8	95.4	95.8	95.8	97.1	97.2	97.2	97.3	97.3	97.3	97.3
W 300	76.5	87.8	90.2	92.0	93.3	94.4	96.0	96.5	96.5	97.9	98.0	98.0	98.7	98.7	98.7	98.8
W 200	76.5	87.8	90.2	92.0	93.3	94.5	96.1	96.6	96.6	98.0	98.1	98.1	99.1	99.1	99.2	99.3
W 100	76.5	87.8	90.2	92.0	93.3	94.5	96.1	96.6	96.6	98.0	98.1	98.1	99.1	99.1	99.2	99.7
W 0	76.5	87.8	90.2	92.0	93.3	94.5	96.1	96.6	96.6	98.0	98.1	98.1	99.1	99.1	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 746



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7. 7930 SEATTLE/TACOMA IAP, WA

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO. CEILING ≥ 20000	23.0	25.5	26.3	26.5	27.1	27.1	27.3	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 18000	28.7	31.3	32.1	32.2	32.9	32.9	33.0	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
≥ 16000	29.3	31.8	32.6	32.8	33.4	33.4	33.6	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
≥ 14000	29.8	32.5	33.3	33.4	34.1	34.1	34.2	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4
≥ 12000	32.6	35.3	36.1	36.2	36.9	36.9	37.0	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
≥ 10000	36.1	38.8	39.7	39.8	40.5	40.5	40.6	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
≥ 9000	37.6	43.4	41.3	41.4	42.1	42.1	42.2	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 8000	38.8	41.6	42.5	42.6	43.3	43.3	43.4	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
≥ 7000	40.6	43.4	44.4	44.5	45.2	45.2	45.3	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
≥ 6000	42.8	45.6	46.5	46.7	47.3	47.3	47.5	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
≥ 5000	45.7	48.7	49.6	49.7	50.4	50.4	50.5	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 4500	48.1	51.1	52.0	52.1	52.8	52.8	52.9	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 4000	51.1	54.5	55.5	55.7	56.7	56.7	56.8	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
≥ 3500	55.6	59.6	60.6	61.0	61.9	61.9	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 3000	59.8	64.2	65.4	65.8	66.7	66.7	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 2500	66.2	71.4	72.9	73.5	74.5	74.5	74.7	74.9	74.9	74.9	74.9	74.9	74.9	75.0	75.0	75.0
≥ 2000	70.1	76.9	78.6	79.3	80.5	80.5	80.7	80.9	80.9	80.9	80.9	80.9	80.9	81.0	81.0	81.0
≥ 1800	74.2	82.2	84.1	84.9	86.4	86.4	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.9	86.9	86.9
≥ 1600	74.9	83.3	85.2	86.0	87.4	87.4	87.6	88.0	88.0	88.0	88.0	88.0	88.0	88.1	88.1	88.1
≥ 1400	76.6	86.0	87.8	88.6	90.1	90.1	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.8	90.8	90.8
≥ 1200	77.5	88.1	90.0	90.8	92.4	92.4	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.2	93.2	93.2
≥ 1000	77.8	88.9	90.8	92.2	94.0	94.1	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.8	94.8	94.8
≥ 900	77.9	89.3	91.2	92.8	94.9	95.1	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.9	95.9	95.9
≥ 800	77.9	89.3	91.3	92.9	95.1	95.5	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.3	96.3	96.3
≥ 700	78.5	90.0	92.0	93.6	95.7	96.4	96.9	97.5	97.5	97.5	97.5	97.5	97.5	97.6	97.6	97.6
≥ 600	78.5	90.0	92.0	93.7	95.9	96.5	97.3	97.9	97.9	97.9	97.9	97.9	97.9	98.0	98.0	98.0
≥ 500	78.5	90.0	92.0	93.7	96.0	96.7	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.5	98.5	98.5
≥ 400	78.5	90.0	92.1	93.9	96.3	96.9	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.8	98.8
≥ 300	78.5	90.0	92.1	93.9	96.3	96.9	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.8	98.8
≥ 200	78.5	90.0	92.1	93.9	96.3	97.1	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9
≥ 100	78.5	90.0	92.1	93.9	96.3	97.1	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9
≥ 0	78.5	90.0	92.1	93.9	96.3	97.1	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS 748

USAF ETAC FORM 101-64 D-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATP WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

77930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO. CEILING	26.6	28.4	29.3	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 20000	29.3	31.1	32.1	33.1	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
≥ 18000	29.3	31.1	32.1	33.1	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
≥ 16000	29.7	31.5	32.5	33.5	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
≥ 14000	32.1	34.3	35.3	36.3	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
≥ 12000	32.9	35.1	36.1	37.1	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
≥ 10000	35.1	37.5	38.6	39.5	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
≥ 9000	36.4	38.8	39.9	40.8	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
≥ 8000	37.6	40.2	41.2	42.2	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 7000	39.1	41.6	42.7	43.6	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
≥ 6000	41.6	44.2	45.4	46.3	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
≥ 5000	46.1	48.7	49.9	50.9	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
≥ 4500	49.4	52.2	53.4	54.5	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
≥ 4000	53.1	56.2	57.6	58.6	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 3500	58.5	62.1	63.7	64.8	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 3000	62.2	66.8	68.6	70.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 2500	66.0	71.1	73.6	75.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 2000	70.4	77.0	79.9	82.5	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 1800	72.6	79.8	83.0	85.7	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1500	74.3	82.3	85.7	88.8	90.8	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1200	75.2	83.8	87.6	91.1	93.4	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 1000	75.6	85.0	88.9	92.9	95.0	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 900	75.8	85.4	89.3	93.4	95.9	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 800	75.9	85.5	89.6	93.8	96.4	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 700	76.3	86.1	90.1	94.4	96.9	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 600	76.4	86.3	90.5	95.0	97.6	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 500	76.4	86.3	90.5	95.2	97.7	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 400	76.4	86.3	90.5	95.2	97.7	97.9	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 300	76.4	86.3	90.5	95.3	97.9	98.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 200	76.4	86.3	90.5	95.3	97.9	98.0	98.8	98.8	98.8	98.8	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100	76.4	86.3	90.5	95.3	97.9	98.0	98.8	98.8	98.8	98.8	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0	76.4	86.3	90.5	95.3	97.9	98.0	98.8	98.8	98.8	98.8	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 747



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

77931 SEATTLE/TACOMA IAP, WA  
STATION

73-81  
YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	23.7	25.4	26.4	27.2	27.2	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
≥ 20000	25.8	27.6	28.5	29.5	29.5	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
IV 18000	25.8	27.6	28.5	29.5	29.5	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
IV 16000	26.0	27.7	28.6	29.6	29.6	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
IV 14000	26.8	28.6	29.7	30.7	30.7	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
IV 12000	29.2	31.3	32.4	33.3	33.3	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
IV 10000	30.9	33.3	34.4	35.3	35.3	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
IV 9000	31.7	34.1	35.2	36.1	36.1	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
IV 8000	33.6	36.1	37.2	38.2	38.3	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
IV 7000	36.3	38.8	39.9	40.8	41.0	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
IV 6000	37.9	40.4	41.5	42.4	42.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
IV 5000	42.2	45.4	46.5	47.4	47.8	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
IV 4500	45.2	48.7	49.8	51.1	51.5	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 4000	48.5	52.7	53.8	55.2	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
IV 3500	50.9	56.5	57.8	59.3	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
IV 3000	56.1	62.5	64.1	66.0	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
IV 2500	60.6	68.7	70.3	72.4	72.8	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
IV 2000	64.1	73.5	75.2	77.8	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
IV 1800	66.7	76.3	78.2	80.7	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
IV 1500	68.9	79.9	81.8	84.7	85.5	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
IV 1200	71.4	83.8	85.9	89.2	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
IV 1000	72.3	85.7	88.6	91.8	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
IV 900	72.8	86.3	89.3	92.5	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 800	73.0	86.5	89.4	92.6	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 700	73.5	87.6	90.5	93.8	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 600	73.6	88.0	91.0	94.5	95.6	95.7	96.0	96.0	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1
IV 500	73.6	88.0	91.0	94.8	95.9	96.0	96.4	96.4	96.4	96.4	96.8	96.8	96.9	96.9	96.9	96.9
IV 400	73.8	88.2	91.4	95.3	96.5	96.7	97.1	97.1	97.1	97.6	97.6	97.6	97.7	97.7	97.7	97.7
IV 300	74.0	88.6	92.1	96.0	97.2	97.3	98.1	98.1	98.1	98.8	98.8	98.8	98.9	98.9	99.1	99.1
IV 200	74.0	88.6	92.1	96.0	97.2	97.3	98.1	98.1	98.1	98.9	98.9	98.9	99.5	99.5	99.6	99.6
IV 100	74.0	88.6	92.1	96.0	97.2	97.3	98.1	98.1	98.1	98.9	99.1	99.1	99.6	99.6	99.7	100.0
IV 0	74.0	88.6	92.1	96.0	97.2	97.3	98.1	98.1	98.1	98.9	99.1	99.1	99.6	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 747



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

77937 SEATTLE/TACOMA IAP, WA

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	20.4	22.2	22.9	23.3	23.5	23.5	23.7	23.7	23.7	23.8	23.8	23.8	23.9	23.9	24.0	24.1
≥ 20000	23.7	25.6	26.3	26.7	26.9	27.0	27.2	27.2	27.2	27.3	27.3	27.3	27.4	27.4	27.5	27.6
≥ 18000	23.9	25.8	26.5	26.9	27.2	27.2	27.4	27.4	27.4	27.5	27.5	27.5	27.6	27.6	27.7	27.8
≥ 16000	24.2	26.2	26.9	27.3	27.6	27.6	27.8	27.8	27.8	27.9	27.9	27.9	28.0	28.0	28.2	28.2
≥ 14000	26.0	28.1	28.9	29.3	29.6	29.6	29.8	29.8	29.8	29.9	29.9	29.9	30.0	30.0	30.2	30.3
≥ 12000	28.5	30.7	31.5	31.9	32.2	32.2	32.4	32.4	32.4	32.5	32.5	32.5	32.7	32.7	32.8	32.9
≥ 10000	30.8	33.3	34.1	34.6	34.8	34.9	35.0	35.1	35.1	35.2	35.2	35.2	35.3	35.3	35.4	35.5
≥ 9000	31.8	34.4	35.2	35.7	35.9	36.0	36.1	36.2	36.2	36.3	36.3	36.3	36.4	36.4	36.5	36.6
≥ 8000	33.5	36.2	37.0	37.5	37.8	37.8	38.0	38.0	38.0	38.1	38.1	38.1	38.2	38.2	38.4	38.5
≥ 7000	35.5	38.2	39.0	39.5	39.8	39.9	40.0	40.1	40.1	40.2	40.2	40.2	40.3	40.3	40.5	40.6
≥ 6000	37.4	40.2	41.1	41.6	41.9	41.9	42.1	42.1	42.1	42.2	42.2	42.2	42.4	42.4	42.6	42.6
≥ 5000	41.1	44.4	45.3	45.8	46.1	46.2	46.3	46.4	46.4	46.5	46.5	46.5	46.6	46.6	46.8	46.9
≥ 4500	43.8	47.4	48.3	49.0	49.3	49.4	49.6	49.6	49.6	49.7	49.7	49.7	49.9	49.9	50.1	50.2
≥ 4000	47.0	50.9	51.9	52.5	52.9	53.0	53.2	53.2	53.2	53.3	53.3	53.3	53.5	53.5	53.7	53.8
≥ 3500	50.4	54.9	56.1	56.9	57.3	57.4	57.6	57.6	57.6	57.8	57.8	57.8	58.0	58.0	58.2	58.3
≥ 3000	55.9	61.3	62.7	63.7	64.2	64.3	64.5	64.6	64.6	64.8	64.8	64.8	65.0	65.0	65.2	65.3
≥ 2500	60.3	67.1	68.8	70.1	70.6	70.7	71.0	71.0	71.0	71.2	71.2	71.2	71.4	71.4	71.6	71.7
≥ 2000	64.6	72.8	74.9	76.4	77.1	77.2	77.5	77.6	77.6	77.7	77.7	77.7	77.9	77.9	78.1	78.2
≥ 1800	66.3	75.4	77.5	79.1	79.9	80.0	80.3	80.4	80.4	80.6	80.6	80.6	80.7	80.7	81.0	81.1
≥ 1500	68.8	78.7	81.0	82.7	83.6	83.7	84.0	84.2	84.2	84.3	84.4	84.4	84.5	84.5	84.7	84.8
≥ 1200	71.2	82.1	84.6	86.7	87.7	87.8	88.2	88.3	88.3	88.6	88.6	88.6	88.7	88.7	89.0	89.1
≥ 1000	72.0	83.6	86.2	88.5	89.6	89.8	90.3	90.4	90.4	90.7	90.7	90.7	90.9	90.9	91.1	91.2
≥ 900	72.3	84.2	86.8	89.2	90.5	90.7	91.2	91.4	91.4	91.6	91.7	91.7	91.8	91.8	92.0	92.1
≥ 800	72.5	84.6	87.3	89.7	91.0	91.2	91.8	92.0	92.0	92.3	92.3	92.3	92.5	92.5	92.7	92.8
≥ 700	72.8	85.2	88.0	90.5	91.9	92.1	92.7	93.0	93.0	93.3	93.3	93.3	93.5	93.5	93.7	93.8
≥ 600	73.0	85.7	88.6	91.3	92.7	93.0	93.8	94.1	94.1	94.5	94.6	94.6	94.7	94.7	94.9	95.0
≥ 500	73.1	85.8	88.8	91.5	93.0	93.3	94.2	94.5	94.5	95.0	95.1	95.1	95.3	95.3	95.5	95.6
≥ 400	73.1	85.9	89.0	91.8	93.4	93.8	94.9	95.3	95.3	95.9	96.0	96.0	96.2	96.2	96.4	96.5
≥ 300	73.2	86.1	89.2	92.1	93.8	94.2	95.5	95.9	95.9	96.7	96.8	96.8	97.3	97.3	97.6	97.8
≥ 200	73.2	86.1	89.2	92.1	93.8	94.3	95.7	96.1	96.1	97.1	97.3	97.3	97.9	97.9	98.5	98.9
≥ 100	73.2	86.1	89.2	92.1	93.8	94.3	95.7	96.1	96.1	97.1	97.3	97.3	98.1	98.1	98.9	99.7
≥ 0	73.2	86.1	89.2	92.1	93.8	94.3	95.7	96.1	96.1	97.1	97.3	97.3	98.1	98.1	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 5991



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

727930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS LST

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	29.9	30.8	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
≥ 20000	30.6	31.5	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
IV 18000	31.0	31.8	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
IV 16000	31.4	32.2	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
IV 14000	32.0	32.8	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
IV 12000	34.1	35.1	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
IV 10000	36.2	37.2	37.5	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
IV 9000	37.7	38.6	39.0	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 8000	40.0	40.9	41.3	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
IV 7000	42.4	43.5	43.8	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
IV 6000	44.9	46.0	46.4	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
IV 5000	48.4	49.5	49.9	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 4500	52.1	53.3	53.8	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
IV 4000	55.4	57.1	57.7	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
IV 3500	59.4	61.9	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
IV 3000	62.8	65.7	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 2500	67.8	72.5	74.2	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
IV 2000	71.4	76.6	78.5	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
IV 1800	73.6	79.1	80.9	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
IV 1500	78.5	84.5	86.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.5
IV 1200	83.1	89.6	91.4	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.9
IV 1000	84.9	91.6	93.5	94.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.2
IV 900	84.9	91.9	93.7	95.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.4
IV 800	85.2	92.6	94.4	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.1
IV 700	85.4	93.0	94.8	96.1	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.5
IV 600	85.6	93.2	95.0	96.4	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.9
IV 500	85.7	93.5	95.4	96.7	97.0	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.3
IV 400	85.7	93.9	95.9	97.2	97.5	97.5	97.6	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	98.1
IV 300	85.8	94.2	96.1	97.7	98.1	98.1	98.2	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.7
IV 200	85.8	94.2	96.1	97.8	98.3	98.3	98.3	98.8	99.0	99.0	99.4	99.4	99.4	99.4	99.5	99.9
IV 100	85.8	94.2	96.1	97.8	98.3	98.3	98.3	98.8	99.0	99.0	99.4	99.4	99.4	99.5	99.5	100.0
IV 0	85.8	94.2	96.1	97.8	98.3	98.3	98.8	99.0	99.0	99.4	99.4	99.4	99.5	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 826



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATP WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

727937  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEAR

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	22.3	24.2	24.5	25.0	25.0	25.0	25.0	25.0	25.0	25.2	25.2	25.2	25.4	25.4	25.4	25.4
≥20000	24.5	26.7	27.1	27.5	27.5	27.5	27.5	27.5	27.5	27.8	27.8	27.8	27.9	27.9	27.9	27.9
≥18000	24.6	26.8	27.2	27.7	27.7	27.7	27.7	27.7	27.7	27.9	27.9	27.9	28.0	28.0	28.0	28.0
≥16000	24.8	26.9	27.3	27.8	27.8	27.8	27.8	27.8	27.8	28.0	28.0	28.0	28.1	28.1	28.1	28.1
≥14000	25.1	27.3	27.7	28.1	28.1	28.1	28.1	28.1	28.1	28.4	28.4	28.4	28.5	28.5	28.5	28.5
≥12000	26.7	29.1	29.6	30.1	30.1	30.1	30.1	30.1	30.1	30.3	30.3	30.3	30.4	30.4	30.4	30.4
≥10000	28.6	31.0	31.5	32.0	32.0	32.0	32.0	32.0	32.0	32.2	32.2	32.2	32.4	32.4	32.4	32.4
≥9000	29.3	31.8	32.2	32.7	32.7	32.7	32.7	32.7	32.7	33.0	33.0	33.0	33.1	33.1	33.1	33.1
≥8000	30.8	33.2	33.7	34.2	34.2	34.2	34.2	34.2	34.2	34.4	34.4	34.4	34.5	34.5	34.5	34.5
≥7000	33.0	35.4	35.9	36.4	36.4	36.4	36.4	36.4	36.4	36.6	36.6	36.6	36.7	36.7	36.7	36.7
≥6000	35.7	38.2	38.6	39.1	39.1	39.1	39.1	39.1	39.1	39.4	39.4	39.4	39.5	39.5	39.5	39.5
≥5000	39.3	41.9	42.4	42.9	42.9	42.9	42.9	42.9	42.9	43.1	43.1	43.1	43.2	43.2	43.2	43.2
≥4500	41.4	44.1	44.6	45.0	45.0	45.0	45.0	45.0	45.0	45.3	45.3	45.3	45.4	45.4	45.4	45.4
≥4000	46.0	49.0	49.5	50.1	50.1	50.2	50.2	50.2	50.2	50.5	50.5	50.5	50.6	50.6	50.6	50.6
≥3500	49.6	53.9	54.6	55.2	55.2	55.3	55.3	55.3	55.3	55.6	55.6	55.6	55.7	55.7	55.7	55.7
≥3000	54.3	59.7	60.6	61.4	61.4	61.5	61.5	61.5	61.5	61.7	61.7	61.7	61.8	61.8	61.8	61.8
≥2500	60.7	67.1	68.6	69.4	69.4	69.6	69.6	69.6	69.6	69.8	69.8	69.8	69.9	69.9	69.9	69.9
≥2000	64.9	72.0	73.7	74.8	74.8	74.9	74.9	74.9	74.9	75.1	75.1	75.1	75.2	75.2	75.2	75.2
≥1800	66.4	74.0	75.8	77.1	77.1	77.2	77.2	77.2	77.2	77.4	77.4	77.4	77.5	77.5	77.5	77.5
≥1500	70.4	78.9	81.0	82.4	82.4	82.5	82.5	82.5	82.5	82.7	82.7	82.7	82.9	82.9	82.9	82.9
≥1200	77.5	86.7	88.9	90.3	90.3	90.6	90.6	90.6	90.6	90.8	90.8	90.8	90.9	90.9	90.9	90.9
≥1000	79.5	89.0	91.2	92.8	93.0	93.1	93.1	93.1	93.1	93.5	93.5	93.5	93.6	93.6	93.6	93.6
≥900	79.7	89.5	91.7	93.4	93.6	93.7	93.7	93.7	93.7	94.1	94.1	94.1	94.2	94.2	94.2	94.2
≥800	79.7	89.7	91.9	93.6	94.0	94.1	94.1	94.1	94.1	94.4	94.4	94.4	94.6	94.6	94.6	94.6
≥700	80.1	90.1	92.3	94.1	94.4	94.6	94.6	94.6	94.6	94.9	94.9	94.9	95.0	95.0	95.0	95.0
≥600	80.3	90.6	92.9	94.9	95.3	95.5	95.7	95.7	95.7	96.0	96.0	96.0	96.1	96.1	96.1	96.1
≥500	80.3	90.6	92.9	94.9	95.3	95.5	95.7	95.8	95.9	96.3	96.3	96.3	96.4	96.4	96.4	96.4
≥400	80.3	90.7	93.2	95.8	96.3	96.5	96.6	96.9	96.9	97.3	97.3	97.3	97.6	97.6	97.6	97.6
≥300	80.4	90.9	93.6	96.4	97.0	97.2	97.5	97.7	97.7	98.2	98.2	98.2	98.4	98.4	98.4	98.4
≥200	80.4	90.9	93.6	96.4	97.0	97.2	97.8	98.1	98.1	99.0	99.0	99.0	99.6	99.6	99.8	99.8
≥100	80.4	90.9	93.6	96.4	97.0	97.2	97.8	98.1	98.1	99.0	99.0	99.0	99.9	99.9	100.0	100.0
≥0	80.4	90.9	93.6	96.4	97.0	97.2	97.8	98.1	98.1	99.0	99.0	99.0	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 828

USAF ETAC

FORM  
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7793: SEATTLE/TACOMA IAP, WA

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ .01	≥ 0
NO CEILING	27.0	22.5	22.9	23.3	23.5	23.5	23.8	23.8	23.8	24.2	24.4	24.4	24.7	24.7	24.7	24.7
≥ 20000	21.7	24.4	24.8	25.3	25.4	25.4	25.8	25.8	25.8	26.1	26.4	26.4	26.6	26.6	26.6	26.6
≥ 18000	21.9	24.7	25.0	25.5	25.6	25.6	26.0	26.0	26.0	26.4	26.6	26.6	26.8	26.8	26.8	26.8
≥ 16000	22.3	25.2	25.5	26.0	26.1	26.1	26.5	26.5	26.5	26.8	27.1	27.1	27.3	27.3	27.3	27.3
≥ 14000	22.7	25.6	26.0	26.5	26.6	26.6	27.0	27.0	27.0	27.3	27.6	27.6	27.8	27.8	27.8	27.8
≥ 12000	24.2	27.3	27.7	28.2	28.3	28.3	28.6	28.6	28.6	29.0	29.2	29.2	29.5	29.5	29.5	29.5
≥ 10000	26.1	29.2	29.6	30.1	30.2	30.2	30.6	30.6	30.6	30.9	31.2	31.2	31.4	31.4	31.4	31.4
≥ 9000	26.6	29.7	30.1	30.6	30.7	30.7	31.0	31.0	31.0	31.4	31.6	31.6	31.9	31.9	31.9	31.9
≥ 8000	27.7	31.0	31.4	31.9	32.0	32.0	32.4	32.4	32.4	32.7	33.0	33.0	33.2	33.2	33.2	33.2
≥ 7000	29.2	32.7	33.1	33.6	33.7	33.7	34.1	34.1	34.1	34.4	34.8	34.8	35.0	35.0	35.1	35.1
≥ 6000	30.8	34.4	34.8	35.3	35.4	35.4	35.7	35.7	35.7	36.1	36.5	36.5	36.7	36.7	36.8	36.8
≥ 5000	35.4	39.1	39.6	40.1	40.2	40.2	40.6	40.6	40.6	40.9	41.3	41.3	41.5	41.5	41.6	41.6
≥ 4500	37.2	41.5	42.1	42.7	42.8	42.8	43.2	43.2	43.2	43.6	43.9	43.9	44.2	44.2	44.3	44.3
≥ 4000	40.7	45.5	46.2	46.8	47.1	47.1	47.4	47.4	47.4	47.8	48.1	48.1	48.4	48.4	48.5	48.5
≥ 3500	44.9	50.3	51.1	51.7	52.0	52.0	52.3	52.3	52.3	52.7	53.1	53.1	53.3	53.3	53.4	53.4
≥ 3000	52.0	59.1	60.4	61.0	61.3	61.3	61.6	61.6	61.6	62.0	62.3	62.3	62.6	62.6	62.7	62.7
≥ 2500	53.9	62.6	64.4	65.1	65.5	65.5	65.8	65.8	65.8	66.2	66.5	66.5	66.8	66.8	66.9	66.9
≥ 2000	58.0	68.4	70.3	71.1	71.5	71.5	72.0	72.0	72.0	72.3	72.7	72.7	72.9	72.9	73.0	73.0
≥ 1800	59.6	70.4	72.6	73.6	74.0	74.0	74.6	74.6	74.6	75.0	75.3	75.3	75.6	75.6	75.7	75.7
≥ 1500	64.4	75.7	77.9	79.1	79.4	79.4	80.0	80.0	80.0	80.4	80.7	80.7	81.0	81.0	81.1	81.1
≥ 1200	69.2	81.1	83.4	85.1	85.7	85.8	86.5	86.6	86.6	87.0	87.4	87.4	87.6	87.6	87.7	87.7
≥ 1000	70.9	83.6	85.9	87.6	88.4	88.7	89.4	89.5	89.5	90.0	90.4	90.4	90.6	90.6	90.7	90.7
≥ 900	71.6	84.6	86.9	88.6	89.4	89.8	90.5	90.6	90.6	91.1	91.5	91.5	91.7	91.7	91.8	91.8
≥ 800	72.0	85.6	87.8	89.5	90.4	90.7	91.5	91.6	91.6	92.1	92.4	92.4	92.7	92.7	92.8	92.8
≥ 700	72.1	85.7	88.0	89.8	90.6	91.0	91.7	91.8	91.8	92.3	92.7	92.7	92.9	92.9	93.0	93.0
≥ 600	72.3	86.3	89.0	91.0	91.8	92.2	92.9	93.0	93.0	93.5	93.9	93.9	94.1	94.1	94.2	94.2
≥ 500	72.3	86.5	89.4	91.6	92.4	92.8	93.9	94.1	94.1	94.6	94.9	94.9	95.2	95.2	95.3	95.3
≥ 400	72.4	86.6	89.7	92.2	93.0	93.4	94.6	94.9	94.9	95.5	96.0	96.0	96.3	96.3	96.4	96.5
≥ 300	72.4	86.8	89.9	92.4	93.5	94.0	95.4	95.8	95.8	96.4	96.9	96.9	97.1	97.1	97.4	97.8
≥ 200	72.4	86.8	89.9	92.4	93.5	94.0	95.4	95.9	95.9	96.8	97.5	97.5	97.7	97.7	98.3	98.8
≥ 100	72.4	86.8	89.9	92.4	93.5	94.0	95.4	95.9	95.9	96.9	97.6	97.6	98.1	98.1	98.7	99.8
≥ 0	72.4	86.8	89.9	92.4	93.5	94.0	95.4	95.9	95.9	96.9	97.6	97.6	98.2	98.2	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 831

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
ATC WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

7 793

SEATTLE/TACOMA IAP, WA

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
20000	26.2	27.3	27.6	28.0	28.1	28.1	28.1	28.1	28.1	28.2	28.2	28.2	28.3	28.3	28.3	28.3
18000	29.4	30.7	31.0	31.4	31.5	31.5	31.5	31.5	31.5	31.6	31.6	31.6	31.8	31.8	31.8	31.8
16000	29.4	30.7	31.0	31.4	31.5	31.5	31.5	31.5	31.5	31.6	31.6	31.6	31.8	31.8	31.8	31.8
14000	29.7	31.0	31.4	31.8	31.9	31.9	31.9	31.9	31.9	32.0	32.0	32.0	32.1	32.1	32.1	32.1
12000	30.3	31.8	32.1	32.5	32.6	32.6	32.6	32.6	32.6	32.7	32.7	32.7	32.8	32.8	32.8	32.8
10000	31.3	33.0	33.5	33.8	33.9	33.9	33.9	33.9	33.9	34.1	34.1	34.1	34.2	34.2	34.2	34.2
8000	32.1	33.9	34.4	34.8	34.9	34.9	34.9	34.9	34.9	35.0	35.0	35.0	35.2	35.2	35.2	35.2
6000	33.1	34.9	35.4	35.8	35.9	35.9	35.9	35.9	35.9	36.0	36.0	36.0	36.1	36.1	36.1	36.1
4000	34.4	36.6	37.1	37.5	37.6	37.6	37.6	37.6	37.6	37.7	37.7	37.7	37.8	37.8	37.8	37.8
2000	36.5	38.7	39.2	39.5	39.7	39.7	39.7	39.7	39.7	39.8	39.8	39.8	39.9	39.9	39.9	39.9
1000	38.1	40.5	41.0	41.4	41.5	41.5	41.5	41.5	41.5	41.6	41.6	41.6	41.7	41.7	41.7	41.7
500	42.7	44.5	45.3	45.6	45.7	45.7	45.7	45.7	45.7	45.9	45.9	45.9	46.0	46.0	46.0	46.0
450	44.2	46.7	47.6	47.9	48.1	48.1	48.1	48.1	48.1	48.2	48.2	48.2	48.3	48.3	48.3	48.3
400	48.4	51.1	51.9	52.3	52.4	52.4	52.4	52.4	52.4	52.6	52.6	52.6	52.7	52.7	52.7	52.7
350	52.2	55.6	56.6	56.9	57.1	57.1	57.1	57.1	57.1	57.2	57.2	57.2	57.3	57.3	57.3	57.3
300	59.6	63.6	64.8	65.2	65.3	65.3	65.3	65.3	65.3	65.5	65.5	65.5	65.6	65.6	65.6	65.6
250	64.2	69.6	70.8	71.3	71.8	72.0	72.3	72.3	72.3	72.5	72.5	72.5	72.6	72.6	72.6	72.6
200	68.7	74.9	76.3	76.9	77.5	77.9	78.1	78.2	78.2	78.5	78.5	78.5	78.6	78.6	78.6	78.6
1800	70.6	76.9	78.2	78.8	79.4	79.9	80.2	80.3	80.3	80.5	80.5	80.5	80.7	80.7	80.7	80.7
1500	74.3	81.1	82.6	83.3	84.2	84.8	85.2	85.3	85.3	85.5	85.5	85.5	85.6	85.6	85.6	85.6
1200	77.9	85.4	87.1	88.0	88.8	89.4	89.8	89.9	89.9	90.1	90.1	90.1	90.3	90.3	90.3	90.3
1000	79.2	87.6	89.3	90.4	91.2	92.0	92.3	92.5	92.5	92.7	92.7	92.7	92.8	92.8	92.8	92.8
900	79.2	87.6	89.3	90.4	91.2	92.0	92.3	92.5	92.5	92.7	92.7	92.7	92.8	92.8	92.8	92.8
800	79.2	88.1	89.8	91.1	92.0	92.7	93.2	93.3	93.3	93.6	93.6	93.6	93.7	93.7	93.7	93.7
700	79.4	88.7	90.6	92.0	92.8	93.6	94.2	94.3	94.3	94.6	94.6	94.6	94.8	94.8	94.8	94.8
600	79.4	88.9	91.1	92.7	93.6	94.3	95.0	95.1	95.1	95.5	95.5	95.5	95.6	95.6	95.6	95.6
500	79.6	89.3	91.5	93.1	93.9	94.6	96.1	96.4	96.4	96.7	96.7	96.7	96.8	96.8	97.0	97.1
400	79.6	89.3	91.6	93.2	94.2	94.9	96.5	96.7	96.7	97.2	97.2	97.2	97.4	97.4	97.6	97.7
300	79.6	89.3	91.6	93.3	94.6	95.5	97.3	97.7	97.7	98.4	98.4	98.4	98.7	98.7	98.8	99.1
200	79.6	89.3	91.6	93.3	94.6	95.5	97.3	97.7	97.7	98.5	98.8	98.8	99.1	99.1	99.3	99.8
100	79.6	89.3	91.6	93.3	94.6	95.5	97.3	97.7	97.7	98.5	98.8	98.8	99.1	99.1	99.3	100.0
0	79.6	89.3	91.6	93.3	94.6	95.5	97.3	97.7	97.7	98.5	98.8	98.8	99.1	99.1	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 822



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
ATC WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

7 793

SEATTLE/TACOMA IAP, WA

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY, STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NOC. CEILING	31.3	33.3	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
≥ 20000	37.2	39.4	39.7	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
≥ 18000	37.8	40.0	40.3	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
≥ 16000	38.3	40.5	40.8	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
≥ 14000	39.2	41.4	41.6	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
≥ 12000	41.8	44.0	44.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 10000	43.2	45.4	45.6	45.7	45.7	45.7	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
≥ 9000	43.7	45.9	46.1	46.2	46.2	46.2	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
≥ 8000	44.5	46.7	47.0	47.1	47.1	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
≥ 7000	45.7	47.9	48.2	48.3	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 6000	47.4	49.6	49.9	50.0	50.0	50.0	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
≥ 5000	51.3	53.6	53.9	54.0	54.0	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
≥ 4500	54.3	56.6	56.8	56.9	56.9	56.9	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 4000	56.9	59.4	59.6	59.7	59.7	59.7	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
≥ 3500	63.0	65.7	66.1	66.2	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 3000	69.6	73.2	73.6	73.7	73.8	73.8	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 2500	75.2	79.2	79.8	79.9	80.2	80.5	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 2000	80.4	85.0	85.6	85.9	86.3	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 1800	81.8	86.5	87.5	87.7	88.1	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 1600	85.0	90.4	91.6	92.0	92.3	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 1400	86.3	92.6	93.9	94.5	94.9	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 1200	87.1	93.8	95.1	95.7	96.1	96.5	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1000	87.1	93.8	95.3	95.9	96.2	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 900	87.1	94.2	95.6	96.2	96.6	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 800	87.1	94.2	95.9	96.6	97.1	97.6	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 700	87.1	94.2	95.9	96.6	97.1	97.6	97.8	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 600	87.3	94.5	96.2	97.1	97.7	98.4	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 500	87.3	94.5	96.2	97.1	98.1	98.8	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	87.3	94.6	96.4	97.2	98.2	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	87.3	94.6	96.4	97.2	98.2	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	87.3	94.6	96.4	97.2	98.2	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	87.3	94.6	96.4	97.2	98.2	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 822

USAF ETAC 0-14-5 (OL) AT PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

77931 SEATTLE/TACOMA IAP, WA

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	31.9	32.4	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
1-2000	37.9	38.6	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
2-3000	38.7	38.8	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
3-4000	38.9	39.6	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
4-5000	40.5	41.2	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
5-6000	43.5	44.2	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
6-7000	46.3	47.0	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
7-8000	47.3	48.0	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
8-9000	47.8	48.5	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
9-10000	50.5	51.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
11-12000	53.2	53.9	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
13-14000	58.2	59.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
15-16000	61.4	61.2	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
17-18000	64.3	65.2	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
19-20000	68.9	70.2	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
21-22000	75.7	77.4	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
23-24000	82.0	84.9	85.5	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
25-26000	85.9	89.3	90.0	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
27-28000	87.2	90.6	91.4	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
29-30000	88.9	93.1	93.8	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
31-32000	93.2	94.8	95.7	96.1	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
33-34000	90.5	95.6	96.7	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
35-36000	90.6	95.9	97.1	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
37-38000	91.0	96.2	97.4	97.9	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
39-40000	91.7	96.2	97.4	97.9	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
41-42000	91.1	96.4	97.6	98.1	98.7	98.7	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
43-44000	91.1	96.4	97.6	98.2	98.8	98.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
45-46000	91.1	96.4	97.6	98.2	99.0	99.0	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
47-48000	91.1	96.4	97.6	98.2	99.0	99.0	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
49-50000	91.1	96.4	97.6	98.2	99.0	99.0	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
51-52000	91.1	96.4	97.6	98.2	99.0	99.0	99.5	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
53-54000	91.1	96.4	97.6	98.2	99.0	99.0	99.5	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 823



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7-793

SEATTLE/TACOMA IAP, WA

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
≥ 20000	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
≥ 18000	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
≥ 16000	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
≥ 14000	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
≥ 12000	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
≥ 10000	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
≥ 9000	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 8000	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
≥ 7000	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
≥ 6000	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
≥ 5000	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 4500	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
≥ 4000	63.2	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 3500	68.4	68.9	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 3000	74.5	76.2	76.2	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
≥ 2500	79.5	82.4	82.4	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 2000	83.4	87.2	87.3	88.2	88.3	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1800	85.3	89.5	89.6	90.6	91.1	91.1	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1600	87.3	92.2	92.3	93.3	93.8	93.8	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1400	88.8	94.5	94.6	95.8	96.3	96.3	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1200	88.9	94.7	94.9	96.1	96.6	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1000	88.9	95.1	95.4	96.6	97.2	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 900	88.9	95.1	95.4	96.6	97.3	97.3	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 800	89.1	95.8	96.1	97.3	98.0	98.0	98.0	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 700	89.3	96.1	96.3	97.8	98.7	98.7	98.7	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600	89.4	96.5	96.7	98.2	99.0	99.0	99.0	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500	89.4	96.5	96.7	98.2	99.0	99.0	99.0	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	89.4	96.5	96.7	98.2	99.0	99.0	99.0	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	89.4	96.5	96.7	98.2	99.1	99.1	99.1	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	89.4	96.5	96.7	98.2	99.1	99.1	99.1	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	89.4	96.5	96.7	98.2	99.1	99.1	99.1	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 619

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

777930

SEATTLE/TACOMA IAP, WA

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	33.1	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
≥ 20000	35.5	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
≥ 18000	35.5	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
≥ 16000	35.8	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 14000	36.1	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
≥ 12000	37.6	37.9	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
≥ 10000	39.9	40.2	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
≥ 9000	41.0	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥ 8000	43.4	44.7	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥ 7000	45.9	46.8	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
≥ 6000	48.2	49.1	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
≥ 5000	51.4	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 4500	53.9	55.3	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 4000	56.8	58.3	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 3500	60.4	62.2	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 3000	67.5	70.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 2500	73.5	76.7	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 2000	77.6	81.8	82.5	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 1800	79.5	83.9	84.6	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 1500	82.7	87.4	88.1	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1400	86.7	92.4	93.2	93.3	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 1200	88.5	94.8	96.0	96.4	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1000	88.7	95.0	96.2	96.6	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 900	88.8	95.2	96.5	97.0	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 800	89.2	95.5	97.0	97.5	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 700	89.3	95.6	97.2	97.7	98.2	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 600	89.5	95.8	97.3	97.9	98.4	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500	89.5	96.0	97.7	98.3	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 400	89.5	96.1	97.8	98.4	98.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	89.5	96.1	97.8	98.4	98.9	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200	89.5	96.1	97.8	98.4	98.9	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100	89.5	96.1	97.8	98.4	98.9	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 0	89.5	96.1	97.8	98.4	98.9	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 825



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

77930 SEATTLE/TACOMA IAP, WA

73-81

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO. CEILING	28.6	29.8	30.0	30.2	30.2	30.2	30.2	30.2	30.2	30.3	30.4	30.4	30.4	30.4	30.4	30.4
≥ 20000	31.7	33.0	33.3	33.5	33.5	33.5	33.5	33.5	33.5	33.6	33.7	33.7	33.7	33.7	33.7	33.7
IV 18000	32.0	33.2	33.5	33.7	33.7	33.7	33.7	33.7	33.7	33.8	33.9	33.9	33.9	33.9	33.9	33.9
IV 16000	32.3	33.6	33.9	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.2	34.2	34.3	34.3	34.3	34.3
IV 14000	33.1	34.4	34.6	34.8	34.9	34.9	34.9	34.9	34.9	35.0	35.0	35.0	35.1	35.1	35.1	35.1
IV 12000	35.0	36.4	36.7	36.9	37.0	37.0	37.0	37.0	37.0	37.1	37.1	37.1	37.2	37.2	37.2	37.2
IV 10000	37.1	38.5	38.8	39.0	39.0	39.0	39.1	39.1	39.1	39.2	39.2	39.2	39.3	39.3	39.3	39.3
IV 9000	37.9	39.4	39.7	39.9	39.9	39.9	40.0	40.0	40.0	40.1	40.1	40.1	40.1	40.1	40.1	40.1
IV 8000	39.5	41.1	41.4	41.6	41.6	41.6	41.7	41.7	41.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8
IV 7000	41.7	43.3	43.6	43.8	43.8	43.8	43.9	43.9	43.9	44.0	44.0	44.0	44.1	44.1	44.1	44.1
IV 6000	44.0	45.6	45.9	46.1	46.2	46.2	46.2	46.2	46.2	46.3	46.4	46.4	46.4	46.4	46.5	46.5
IV 5000	48.0	49.8	50.1	50.3	50.3	50.3	50.4	50.4	50.4	50.5	50.5	50.5	50.6	50.6	50.6	50.6
IV 4500	50.5	52.4	52.8	53.0	53.1	53.1	53.1	53.1	53.1	53.2	53.3	53.3	53.3	53.3	53.4	53.4
IV 4000	54.0	56.1	56.6	56.8	56.9	56.9	57.0	57.0	57.0	57.1	57.1	57.1	57.2	57.2	57.2	57.2
IV 3500	58.3	61.1	61.6	61.9	61.9	61.9	62.0	62.0	62.0	62.1	62.1	62.1	62.2	62.2	62.2	62.2
IV 3000	64.5	68.1	68.9	69.2	69.3	69.3	69.3	69.3	69.3	69.4	69.5	69.5	69.5	69.5	69.5	69.5
IV 2500	69.6	74.4	75.3	75.8	75.9	76.0	76.1	76.1	76.1	76.2	76.2	76.2	76.3	76.3	76.3	76.3
IV 2000	73.8	79.4	80.5	81.1	81.3	81.4	81.5	81.5	81.5	81.7	81.7	81.7	81.8	81.8	81.8	81.8
IV 1800	75.5	81.3	82.6	83.2	83.5	83.6	83.7	83.8	83.8	83.9	83.9	83.9	84.0	84.0	84.0	84.0
IV 1500	78.9	85.4	86.7	87.4	87.7	87.9	88.0	88.1	88.1	88.2	88.2	88.2	88.3	88.3	88.3	88.3
IV 1200	82.4	89.6	91.0	92.0	92.4	92.5	92.7	92.7	92.7	92.8	92.9	92.9	93.0	93.0	93.0	93.0
IV 1000	83.7	91.3	92.8	93.8	94.3	94.5	94.6	94.7	94.7	94.9	94.9	94.9	95.0	95.0	95.0	95.0
IV 900	83.8	91.7	93.2	94.3	94.8	95.0	95.1	95.2	95.2	95.3	95.4	95.4	95.4	95.4	95.4	95.5
IV 800	84.0	92.1	93.6	94.7	95.2	95.5	95.6	95.7	95.7	95.8	95.9	95.9	96.0	96.0	96.0	96.0
IV 700	84.2	92.4	94.0	95.1	95.7	95.9	96.1	96.3	96.3	96.4	96.5	96.5	96.5	96.5	96.6	96.6
IV 600	84.3	92.6	94.4	95.6	96.2	96.5	96.7	96.9	96.9	97.1	97.1	97.1	97.2	97.2	97.2	97.2
IV 500	84.4	92.9	94.6	96.0	96.6	96.8	97.3	97.5	97.5	97.7	97.7	97.7	97.8	97.8	97.8	97.9
IV 400	84.4	93.0	94.8	96.3	97.0	97.2	97.7	98.1	98.1	98.3	98.4	98.4	98.5	98.5	98.5	98.5
IV 300	84.4	93.1	95.0	96.5	97.3	97.6	98.2	98.6	98.6	98.8	98.9	98.9	99.0	99.0	99.0	99.2
IV 200	84.4	93.1	95.0	96.5	97.3	97.7	98.4	98.7	98.7	99.2	99.3	99.3	99.5	99.5	99.6	99.7
IV 100	84.4	93.1	95.0	96.5	97.3	97.7	98.4	98.8	98.8	99.2	99.3	99.3	99.6	99.6	99.7	100.0
IV 0	84.4	93.1	95.0	96.5	97.3	97.7	98.4	98.8	98.8	99.2	99.3	99.3	99.6	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 6596



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7:7930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEAR

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	38.8	39.5	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥2000	41.7	42.4	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
≥1800	41.7	42.4	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
≥1600	41.8	42.5	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
≥1400	41.8	42.5	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
≥1200	42.4	43.2	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
≥1000	44.9	45.7	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
≥900	46.4	47.2	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥800	48.4	49.2	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
≥700	50.8	51.6	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
≥600	52.4	53.2	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥500	55.2	56.3	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥450	58.2	59.6	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
≥400	59.7	61.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
≥350	63.9	65.9	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥300	69.0	71.5	72.6	72.8	72.8	72.8	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥250	74.5	77.7	79.0	79.2	79.2	79.2	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥200	78.8	82.9	84.3	84.6	84.6	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥180	80.8	85.3	86.8	87.1	87.1	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥150	82.3	87.3	88.8	89.1	89.1	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥120	85.4	91.0	92.6	93.0	93.0	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥100	86.8	93.1	95.0	95.4	95.4	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥90	87.2	93.5	95.4	95.7	95.7	95.7	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥80	87.6	94.2	96.1	96.5	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥70	88.0	95.0	97.1	97.6	97.7	97.7	97.7	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥60	88.0	95.0	97.2	98.0	98.1	98.1	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥50	88.0	95.4	97.7	98.5	98.6	98.6	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥40	88.1	95.5	97.9	98.6	98.7	98.7	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥30	88.2	95.7	98.4	99.2	99.3	99.3	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥20	88.2	95.7	98.4	99.2	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥10	88.2	95.7	98.4	99.2	99.6	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	88.2	95.7	98.4	99.2	99.6	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 797



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

707930  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEAR

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	31.8	33.5	33.7	34.2	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4
≥ 20000	34.7	36.6	36.7	37.2	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
IV 18000	34.7	36.6	36.7	37.2	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
IV 16000	34.9	36.8	36.9	37.5	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
IV 14000	35.6	37.5	37.6	38.1	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
IV 12000	36.9	38.8	39.0	39.5	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
IV 10000	38.5	40.4	40.5	41.0	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
IV 9000	39.7	41.6	41.7	42.2	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
IV 8000	42.1	44.0	44.1	44.6	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
IV 7000	43.1	45.0	45.1	45.6	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
IV 6000	46.3	48.2	48.3	48.8	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
IV 5000	48.9	50.8	51.1	51.6	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
IV 4500	52.6	55.0	55.2	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
IV 4000	54.4	57.0	57.4	57.9	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
IV 3500	57.8	61.0	61.5	62.0	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
IV 3000	62.8	66.7	67.7	68.3	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
IV 2500	66.0	70.2	71.4	72.0	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
IV 2000	70.9	76.7	77.8	78.6	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
IV 1800	72.0	77.9	79.1	79.8	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
IV 1500	75.4	81.8	83.1	84.1	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
IV 1200	79.4	86.3	87.9	88.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 1000	81.7	88.9	90.7	91.7	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IV 900	82.2	89.8	91.7	92.7	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
IV 800	83.1	90.8	92.9	93.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 700	83.4	91.2	93.4	94.8	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
IV 600	83.9	92.2	94.7	96.6	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IV 500	83.9	92.3	95.0	97.1	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 400	84.0	92.9	95.6	97.7	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 300	84.0	92.9	95.7	98.4	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 200	84.0	92.9	95.7	98.4	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 100	84.0	92.9	95.7	98.4	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 0	84.0	92.9	95.7	98.4	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0

TOTAL NUMBER OF OBSERVATIONS 793



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

77937

SEATTLE/TACOMA IAP, WA

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOUR 1-3

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	27.3	29.9	30.0	30.3	30.3	30.3	30.3	30.3	30.3	30.4	30.4	30.4	30.7	30.7	30.8	30.9
≥ 20000	30.7	33.4	33.5	33.8	33.9	33.9	33.9	33.9	33.9	34.2	34.2	34.2	34.4	34.4	34.7	34.8
≥ 18000	31.0	33.8	33.9	34.2	34.3	34.3	34.3	34.3	34.3	34.5	34.5	34.5	34.8	34.8	35.1	35.2
≥ 16000	31.8	34.5	34.7	34.9	35.1	35.1	35.1	35.1	35.1	35.3	35.3	35.3	35.6	35.6	35.8	35.9
IV 14000	32.4	35.2	35.3	35.6	35.7	35.7	35.7	35.7	35.7	35.9	35.9	35.9	36.2	36.2	36.4	36.6
IV 12000	33.8	36.6	36.7	36.9	37.1	37.1	37.1	37.1	37.1	37.3	37.3	37.3	37.6	37.6	37.8	37.9
IV 10000	35.3	38.1	38.3	38.6	38.7	38.7	38.7	38.8	38.8	39.1	39.1	39.1	39.3	39.3	39.6	39.7
IV 9000	36.4	39.2	39.4	39.7	39.8	39.8	39.8	39.9	39.9	40.2	40.2	40.2	40.5	40.5	40.7	40.8
IV 8000	37.6	40.5	40.7	41.0	41.1	41.1	41.1	41.2	41.2	41.5	41.5	41.5	41.7	41.7	42.0	42.1
IV 7000	39.8	42.5	42.7	43.0	43.1	43.1	43.1	43.2	43.2	43.5	43.5	43.5	43.7	43.7	44.0	44.1
IV 6000	42.1	45.1	45.4	45.6	45.7	45.7	45.7	45.9	45.9	46.1	46.1	46.1	46.4	46.4	46.6	46.7
IV 5000	44.3	47.5	47.9	48.1	48.4	48.5	48.5	48.6	48.6	48.9	48.9	48.9	49.1	49.1	49.4	49.5
IV 4500	46.5	49.7	50.1	50.4	50.6	50.8	50.8	50.9	50.9	51.1	51.1	51.1	51.4	51.4	51.6	51.8
IV 4000	48.1	51.6	52.0	52.3	52.6	52.8	52.8	52.9	52.9	53.1	53.1	53.1	53.4	53.4	53.6	53.8
IV 3500	51.1	54.8	55.2	55.4	55.9	56.0	56.0	56.2	56.2	56.4	56.4	56.4	56.7	56.7	56.9	57.0
IV 3000	54.9	59.4	59.8	60.1	60.6	60.8	60.8	60.9	60.9	61.2	61.2	61.2	61.4	61.4	61.7	61.8
IV 2500	58.5	63.4	63.9	64.2	64.7	64.9	64.9	65.1	65.1	65.3	65.3	65.3	65.6	65.6	65.8	66.0
IV 2000	63.3	69.6	70.2	70.7	71.2	71.5	71.7	71.9	71.9	72.1	72.1	72.1	72.4	72.4	72.6	72.7
IV 1800	64.2	70.7	71.4	72.0	72.5	72.7	73.0	73.1	73.1	73.4	73.4	73.4	73.6	73.6	73.9	74.0
IV 1500	67.7	75.0	75.8	77.0	77.5	77.8	78.1	78.4	78.4	78.6	78.6	78.6	78.9	78.9	79.1	79.3
IV 1200	73.0	81.2	82.0	83.4	84.0	84.3	84.7	84.9	84.9	85.2	85.2	85.2	85.4	85.4	85.7	85.8
IV 1000	75.6	84.5	85.8	87.6	88.3	88.6	89.1	89.3	89.3	89.6	89.6	89.6	89.8	89.8	90.1	90.2
IV 900	76.9	86.1	87.3	89.1	90.1	90.3	90.8	91.1	91.1	91.3	91.3	91.3	91.6	91.6	91.8	92.0
IV 800	77.5	86.8	88.1	90.1	90.8	91.1	91.6	91.8	91.8	92.1	92.1	92.1	92.3	92.3	92.6	92.7
IV 700	77.8	87.2	88.4	90.5	91.2	91.5	92.1	92.3	92.3	92.6	92.6	92.6	92.8	92.8	93.1	93.2
IV 600	78.1	87.8	89.1	91.3	92.1	92.3	93.0	93.2	93.2	93.5	93.5	93.5	93.7	93.7	94.0	94.1
IV 500	78.4	88.3	89.8	92.5	93.2	93.5	94.3	94.6	94.6	94.8	94.8	94.8	95.1	95.1	95.4	95.5
IV 400	78.4	88.6	90.1	92.8	93.8	94.2	95.1	95.4	95.4	95.6	95.6	95.6	95.9	95.9	96.1	96.2
IV 300	78.4	88.4	90.3	93.1	94.3	94.8	96.0	96.5	96.5	96.7	96.9	96.9	97.2	97.2	97.5	97.7
IV 200	78.4	88.6	90.3	93.2	94.5	95.0	96.2	96.9	96.9	97.4	97.6	97.6	98.2	98.2	98.9	99.5
IV 100	78.4	88.4	90.3	93.2	94.5	95.0	96.2	96.9	96.9	97.4	97.7	97.7	98.4	98.4	99.2	100.0
IV 0	78.4	88.6	90.3	93.2	94.5	95.0	96.2	96.9	96.9	97.4	97.7	97.7	98.4	98.4	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS

796

USAF ETAC

FORM 107-64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

72793 SEATTLE/TACOMA IAP, WA

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS LST

CEILING FEET	VISIBILITY: STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	30.1	32.4	32.5	33.3	33.3	33.3	33.3	33.4	33.4	33.5	33.6	33.6	33.6	33.6	33.6	33.6
≥ 20000	36.4	39.0	39.1	39.9	39.9	40.0	40.0	40.1	40.1	40.2	40.3	40.3	40.3	40.3	40.3	40.3
≥ 18000	36.7	39.4	39.5	40.2	40.2	40.3	40.3	40.5	40.5	40.6	40.7	40.7	40.7	40.7	40.7	40.7
≥ 16000	36.9	39.5	39.6	40.3	40.3	40.5	40.5	40.6	40.6	40.7	40.8	40.8	40.8	40.8	40.8	40.8
≥ 14000	38.1	40.7	40.8	41.6	41.6	41.7	41.7	41.8	41.8	42.0	42.1	42.1	42.1	42.1	42.1	42.1
≥ 12000	40.0	42.6	42.7	43.5	43.5	43.6	43.6	43.7	43.7	43.8	44.0	44.0	44.0	44.0	44.0	44.0
≥ 10000	41.7	44.3	44.5	45.2	45.2	45.3	45.3	45.5	45.5	45.6	45.7	45.7	45.7	45.7	45.7	45.7
≥ 9000	42.8	45.5	45.6	46.3	46.3	46.5	46.5	46.6	46.6	46.7	46.8	46.8	46.8	46.8	46.8	46.8
≥ 8000	44.3	46.9	47.1	47.8	47.8	47.9	47.9	48.1	48.1	48.2	48.3	48.3	48.3	48.3	48.3	48.3
≥ 7000	46.0	48.6	48.7	49.4	49.4	49.6	49.6	49.7	49.7	49.8	49.9	49.9	49.9	49.9	49.9	49.9
≥ 6000	47.2	49.8	49.9	50.7	50.7	50.8	50.8	50.9	50.9	51.1	51.2	51.2	51.2	51.2	51.2	51.2
≥ 5000	50.1	52.8	52.9	53.7	53.7	53.8	53.8	53.9	53.9	54.0	54.2	54.2	54.2	54.2	54.2	54.2
≥ 4500	50.9	53.8	53.9	54.7	54.7	54.8	54.8	54.9	54.9	55.0	55.2	55.2	55.2	55.2	55.2	55.2
≥ 4000	53.9	56.8	56.9	57.7	57.7	57.8	57.8	57.9	57.9	58.0	58.2	58.2	58.2	58.2	58.2	58.2
≥ 3500	56.9	60.0	60.1	60.9	60.9	61.0	61.0	61.1	61.1	61.3	61.4	61.4	61.4	61.4	61.4	61.4
≥ 3000	62.3	65.4	65.6	66.4	66.4	66.5	66.6	66.7	66.7	66.9	67.0	67.0	67.0	67.0	67.0	67.0
≥ 2500	67.2	71.1	71.5	72.2	72.2	72.4	72.5	72.6	72.6	72.7	72.9	72.9	72.9	72.9	72.9	72.9
≥ 2000	73.7	78.5	79.0	79.7	79.7	79.8	80.0	80.1	80.1	80.2	80.3	80.3	80.3	80.3	80.3	80.3
≥ 1800	75.5	80.8	81.3	82.2	82.2	82.3	82.4	82.6	82.6	82.7	82.8	82.8	82.8	82.8	82.8	82.8
≥ 1500	78.1	84.1	84.7	85.7	85.8	85.9	86.1	86.2	86.2	86.3	86.4	86.4	86.4	86.4	86.4	86.4
≥ 1200	80.8	87.4	88.2	89.4	89.5	89.7	89.9	90.2	90.2	90.3	90.4	90.4	90.4	90.4	90.4	90.4
≥ 1000	82.6	89.8	90.9	92.3	92.4	92.5	93.0	93.3	93.3	93.4	93.5	93.5	93.5	93.5	93.5	93.5
≥ 900	83.3	90.5	91.7	93.2	93.3	93.4	93.9	94.1	94.1	94.3	94.4	94.4	94.4	94.4	94.4	94.4
≥ 800	83.7	90.9	92.0	93.5	93.8	93.9	94.4	94.6	94.6	94.8	94.9	94.9	94.9	94.9	94.9	94.9
≥ 700	84.1	91.5	93.0	94.5	94.9	95.0	95.5	95.8	95.8	95.9	96.0	96.0	96.0	96.0	96.0	96.0
≥ 600	84.2	91.9	93.4	95.1	95.5	95.8	96.5	96.9	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.1
≥ 500	84.2	91.9	93.5	95.3	95.8	96.1	96.9	97.4	97.4	97.5	97.6	97.6	97.6	97.6	97.6	97.6
≥ 400	84.2	91.9	93.5	95.5	96.0	96.5	97.3	97.8	97.8	97.9	98.0	98.0	98.0	98.0	98.0	98.0
≥ 300	84.2	91.9	93.5	95.6	96.1	96.6	97.8	98.4	98.4	98.6	98.9	98.9	98.9	98.9	98.9	98.9
≥ 200	84.2	91.9	93.5	95.9	96.4	96.9	98.1	98.8	98.8	99.4	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100	84.2	91.9	93.5	95.9	96.4	96.9	98.1	98.8	98.8	99.4	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0	84.2	91.9	93.5	95.9	96.4	96.9	98.1	98.8	98.8	99.4	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 803



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7-7935 SEATTLE/TACOMA IAP, WA

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (EST)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .03	≥ 0
NO CEILING	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
≥ 20000	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
IV 18000	48.2	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
IV 16000	48.7	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
IV 14000	50.1	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
IV 12000	50.9	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
IV 10000	52.0	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 9000	53.0	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
IV 8000	56.0	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
IV 7000	57.8	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
IV 6000	59.9	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
IV 5000	62.7	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 4500	64.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
IV 4000	68.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
IV 3500	71.5	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
IV 3000	77.5	79.6	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
IV 2500	83.9	86.4	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
IV 2000	87.5	90.4	90.7	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
IV 1800	88.8	91.7	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IV 1500	90.1	93.5	93.8	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
IV 1200	91.8	96.2	96.7	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
IV 1000	92.3	97.5	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 900	92.3	97.6	98.1	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 800	92.3	97.6	98.1	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 700	92.3	97.6	98.1	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 600	92.3	97.6	98.1	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 500	92.3	97.9	98.5	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 400	92.3	97.9	98.5	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 300	92.3	97.9	98.5	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 200	92.3	97.9	98.5	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 100	92.3	97.9	98.5	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 0	92.3	97.9	98.5	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 794



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

77937

SEATTLE/TACOMA IAP, WA

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO. CEILING	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 20000	51.1	51.1	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 18000	52.3	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 16000	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
≥ 14000	53.8	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 12000	55.5	55.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
≥ 10000	56.8	56.8	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
≥ 9000	57.9	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 8000	60.5	60.5	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 7000	62.8	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 6000	65.8	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 5000	70.3	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 4500	72.7	72.9	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 4000	77.4	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥ 3500	80.1	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 3000	84.3	85.6	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 2500	88.2	90.0	90.2	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 2000	92.5	95.4	95.6	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 1800	92.9	95.7	96.0	96.2	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1500	93.7	97.0	97.4	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1200	94.2	97.6	98.0	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000	94.2	97.9	98.2	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 900	94.2	97.9	98.2	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	94.2	97.9	98.2	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	94.2	97.9	98.4	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	94.2	97.9	98.5	99.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500	94.2	97.9	98.5	99.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	94.2	97.9	98.5	99.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	94.2	97.9	98.5	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	94.2	97.9	98.5	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	94.2	97.9	98.5	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	94.2	97.9	98.5	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 798



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

77930 SEATTLE/TACOMA IAP, WA

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥9	≥8	≥7	≥6	≥5	≥4	≥3	≥2	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	40.8	40.8	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
≥ 20000	46.4	46.4	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
≥ 18000	47.0	47.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 16000	47.7	47.7	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
≥ 14000	49.1	49.1	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
≥ 12000	50.9	50.9	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 10000	52.5	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 9000	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
≥ 8000	57.5	57.5	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 7000	59.7	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
≥ 6000	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 5000	67.1	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 4500	70.7	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 4000	73.9	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 3500	78.1	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 3000	83.8	84.9	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 2500	86.7	88.2	88.6	88.8	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 2000	89.7	92.6	93.0	93.3	93.3	93.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1800	90.5	93.6	94.1	94.5	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1500	91.5	94.6	95.1	95.9	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1200	92.3	95.6	96.2	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1000	92.6	96.6	97.2	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 900	92.6	96.6	97.2	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800	92.6	96.6	97.2	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	92.7	97.0	97.6	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 600	92.7	97.1	97.7	99.0	99.1	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	92.8	97.2	97.9	99.1	99.2	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	92.8	97.2	97.9	99.1	99.2	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	92.8	97.4	98.0	99.2	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	92.8	97.4	98.0	99.2	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	92.8	97.4	98.0	99.2	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	92.8	97.4	98.0	99.2	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 796



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7793 SEATTLE/TACOMA IAP, WA

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

NO. CEILING FEET	VISIBILITY STATUTE MILES															
	210	206	205	204	203	202	201	200	200	200	200	200	200	200	200	200
≥ 2000	40.3	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
≥ 1800	43.3	44.2	44.2	44.2	44.2	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
≥ 1600	44.3	44.7	44.7	44.7	44.7	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥ 1400	44.7	45.0	45.0	45.0	45.0	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 1200	45.2	45.5	45.5	45.5	45.5	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
≥ 1000	47.9	48.3	48.3	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 800	50.1	50.5	50.5	50.5	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
≥ 600	52.5	52.9	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥ 400	54.7	55.1	55.1	55.1	55.1	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
≥ 200	56.8	57.2	57.2	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 100	58.6	58.9	58.9	58.9	58.9	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 50	62.7	62.4	62.4	62.4	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 25	64.4	64.9	65.0	65.0	65.0	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 10	67.4	68.1	68.2	68.2	68.2	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 5	72.3	73.4	73.6	73.6	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 2	77.8	79.9	80.1	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 1	81.4	83.7	84.0	84.2	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 0.5	87.2	90.4	90.8	91.1	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 0.25	88.2	91.6	92.1	92.3	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 0.1	89.6	93.8	94.3	94.5	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 0.05	91.3	95.7	96.2	96.4	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 0.025	91.6	96.5	97.0	97.4	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 0.01	91.7	96.7	97.1	97.5	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 0.005	91.7	96.7	97.1	97.5	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 0.0025	92.1	97.0	97.5	97.9	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 0.001	92.2	97.4	97.9	98.4	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 0.0005	92.2	97.4	97.9	98.4	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 0.00025	92.2	97.4	98.0	98.5	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 0.0001	92.2	97.4	98.3	98.8	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0.00005	92.2	97.4	98.3	98.8	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0.000025	92.2	97.4	98.3	98.8	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0.00001	92.2	97.4	98.3	98.8	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 806

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
A1- WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

707937 SEATTLE/TACOMA IAP, WA  
STATION

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

ELEVATION (FEET)		VISIBILITY (STATUTE MILES)															
		20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	CEILING	36.4	37.5	37.6	37.8	37.8	37.8	37.8	37.8	37.8	37.9	37.9	37.9	37.9	37.9	37.9	37.9
1000	1000	41.6	42.7	42.9	43.1	43.1	43.1	43.1	43.1	43.1	43.2	43.2	43.2	43.2	43.2	43.3	43.3
1000	2000	42.1	43.1	43.3	43.5	43.5	43.5	43.5	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.7	43.7
1000	3000	42.5	43.6	43.8	43.9	44.0	44.0	44.0	44.0	44.0	44.1	44.1	44.1	44.1	44.1	44.2	44.2
1000	4000	43.3	44.4	44.5	44.7	44.8	44.8	44.8	44.8	44.8	44.9	44.9	44.9	44.9	44.9	44.9	45.0
1000	5000	44.8	45.9	46.1	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4	46.4	46.5	46.5	46.5
1000	6000	46.5	47.6	47.8	48.0	48.0	48.0	48.0	48.1	48.1	48.1	48.1	48.1	48.1	48.2	48.2	48.2
1000	7000	48.0	49.1	49.3	49.4	49.5	49.5	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.7	49.7
1000	8000	50.2	51.3	51.5	51.7	51.7	51.7	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.9	51.9	51.9
1000	9000	52.1	53.2	53.4	53.6	53.6	53.7	53.7	53.7	53.7	53.7	53.8	53.8	53.8	53.8	53.8	53.8
1000	10000	54.3	55.5	55.7	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1
1000	11000	57.6	58.9	59.1	59.3	59.4	59.4	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.6	59.6
1000	12000	60.1	61.5	61.8	62.0	62.0	62.1	62.1	62.1	62.1	62.2	62.2	62.2	62.2	62.2	62.2	62.3
1000	13000	62.9	64.5	64.8	65.0	65.1	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.3	65.3	65.3	65.3
1000	14000	66.5	68.4	68.7	68.9	69.0	69.1	69.1	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2
1000	15000	71.5	74.1	74.6	74.9	75.0	75.1	75.1	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.3
1000	16000	75.8	78.9	79.4	79.7	79.9	80.0	80.0	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.2	80.2
1000	17000	80.5	84.6	85.2	85.6	85.8	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.1	86.1	86.1	86.1
1000	18000	81.6	85.9	86.6	87.0	87.2	87.3	87.4	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.6	87.6
1000	19000	83.6	88.4	89.1	89.8	90.0	90.1	90.2	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.4
1000	20000	86.1	91.4	92.2	93.1	93.3	93.4	93.5	93.5	93.5	93.6	93.6	93.6	93.7	93.7	93.7	93.7
1000	21000	87.2	93.1	94.1	95.0	95.3	95.4	95.5	95.6	95.6	95.7	95.7	95.7	95.8	95.8	95.8	95.8
1000	22000	87.6	93.6	94.6	95.6	95.9	96.0	96.1	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.4	96.4
1000	23000	87.8	93.9	95.0	96.0	96.3	96.4	96.5	96.6	96.6	96.7	96.7	96.7	96.8	96.8	96.8	96.8
1000	24000	88.1	94.3	95.5	96.5	96.9	97.0	97.2	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.5	97.5
1000	25000	88.2	94.6	95.8	97.1	97.5	97.7	97.9	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.2	98.2
1000	26000	88.3	94.8	96.1	97.4	97.9	98.1	98.3	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.6
1000	27000	88.3	94.9	96.2	97.6	98.1	98.3	98.6	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9
1000	28000	88.3	95.0	96.4	97.9	98.4	98.7	99.0	99.1	99.1	99.3	99.3	99.3	99.4	99.4	99.4	99.5
1000	29000	88.3	95.0	96.4	97.9	98.5	98.7	99.1	99.3	99.3	99.5	99.5	99.5	99.7	99.7	99.8	99.9
1000	30000	88.3	95.0	96.4	97.9	98.5	98.7	99.1	99.3	99.3	99.5	99.6	99.6	99.7	99.7	99.9	100.0
1000	31000	88.3	95.0	96.4	97.9	98.5	98.7	99.1	99.3	99.3	99.5	99.6	99.6	99.7	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 6383

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE







GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

70793

SEATTLE/TACOMA IAP, WA

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200

HEIGHT FEET	VISIBILITY - STATUTE MILES															
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	10.0
NONE	39.3	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
2 2000	41.7	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
2 1800	41.7	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
2 1600	42.2	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
2 1400	42.5	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
2 1200	43.6	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
2 1000	45.6	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
2 900	46.7	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
2 800	48.7	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
2 700	50.2	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
2 600	52.8	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
2 500	57.4	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
2 4500	61.9	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
2 4000	65.4	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
2 3500	69.7	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
2 3000	75.4	77.5	77.8	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
2 2500	79.9	82.5	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
2 2000	82.9	85.6	86.2	86.3	86.4	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
2 1800	84.8	87.5	88.1	88.3	88.5	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
2 1500	87.5	90.3	90.9	91.3	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
2 1200	90.9	93.9	94.8	95.3	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
2 1000	91.9	95.1	96.0	96.5	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
2 900	92.6	96.0	96.8	97.3	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
2 800	93.6	97.1	97.9	98.4	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
2 700	93.8	97.3	98.2	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
2 600	93.8	97.6	98.7	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2 500	93.8	97.6	98.7	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2 400	93.8	97.6	98.7	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2 300	93.8	97.6	98.7	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2 200	93.8	97.6	98.7	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2 100	93.8	97.6	98.7	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2 0	93.8	97.6	98.7	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 824



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AEP WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 7937 SEATTLE/TACOMA IAP, WA

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	34.4	35.2	35.2	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
≥20000	37.2	37.9	37.9	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
≥18000	37.6	38.3	38.3	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
≥16000	38.1	38.8	38.8	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
≥14000	38.9	39.6	39.6	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
≥12000	40.6	41.6	41.6	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
≥10000	41.7	42.7	42.7	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
≥9000	43.2	44.1	44.1	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
≥8000	45.0	45.9	45.9	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥7000	46.4	47.4	47.4	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
≥6000	48.6	49.6	49.6	49.7	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
≥5000	50.7	51.8	51.9	52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥4500	54.5	55.9	56.0	56.2	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥4000	57.1	58.4	58.5	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥3500	61.7	63.3	63.5	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥3000	67.3	69.2	69.5	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥2500	70.5	73.0	73.5	73.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥2000	73.7	77.2	77.7	78.2	78.4	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥1800	75.4	78.9	79.6	80.2	80.5	80.5	80.6	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥1500	78.1	81.7	82.4	83.2	83.4	83.4	83.5	83.5	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥1200	82.7	86.7	87.5	88.2	88.6	88.6	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥1000	85.0	89.0	90.7	91.4	92.0	92.1	92.2	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥900	85.6	90.8	91.6	92.4	93.1	93.2	93.3	93.3	93.3	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥800	86.7	91.9	92.7	93.5	94.2	94.3	94.4	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥700	87.6	93.3	94.3	95.0	95.8	95.9	96.0	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥600	88.7	94.8	95.8	96.6	97.5	97.6	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥500	88.7	94.9	95.9	96.7	97.6	97.7	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥400	88.8	95.3	96.4	97.5	98.4	98.7	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥300	88.8	95.4	96.5	97.6	98.5	98.8	99.3	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥200	88.8	95.4	96.5	97.7	98.7	98.9	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥100	88.8	95.4	96.5	97.7	98.7	98.9	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥0	88.8	95.4	96.5	97.7	98.7	98.9	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 825



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7793 SEATTLE/TACOMA IAP, WA

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	29.8	30.6	30.7	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
≥ 20000	32.1	32.9	33.0	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
≥ 18000	32.6	33.4	33.5	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
≥ 5000	33.5	34.2	34.4	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
≥ 14000	35.2	36.0	36.1	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
≥ 12000	35.7	36.8	36.9	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
≥ 10000	37.4	38.7	38.8	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
≥ 9000	39.0	40.4	40.5	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
≥ 8000	39.9	41.5	41.6	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
≥ 7000	41.7	43.4	43.6	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
≥ 6000	43.4	45.2	45.3	45.5	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
≥ 5000	46.3	48.1	48.2	48.5	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 4500	48.7	50.6	50.9	51.2	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
≥ 4000	50.8	52.9	53.4	53.6	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 3500	54.1	56.6	57.2	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 3000	60.1	63.3	64.4	64.7	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥ 2500	63.4	66.9	68.0	68.3	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 2000	67.5	71.5	72.8	73.4	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 1800	69.2	73.6	75.1	75.8	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 1500	74.0	79.0	80.7	81.7	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 1200	79.9	85.5	87.2	88.6	89.1	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1000	81.1	86.9	88.6	90.1	90.6	90.7	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 900	81.7	87.9	89.7	91.2	91.8	92.0	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 800	82.0	88.5	90.4	91.9	92.6	92.9	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 700	82.7	89.9	91.9	93.4	94.4	94.6	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 600	83.6	91.2	93.3	94.8	95.8	96.1	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 500	83.8	91.5	93.7	95.6	96.7	96.9	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 400	83.9	91.8	94.0	95.8	96.9	97.5	98.5	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 300	83.9	91.8	94.0	95.8	96.9	97.5	98.7	99.0	99.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 200	83.9	91.8	94.0	95.8	96.9	97.5	98.7	99.0	99.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100	83.9	91.8	94.0	95.8	96.9	97.5	98.7	99.0	99.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0	83.9	91.8	94.0	95.8	96.9	97.5	98.7	99.0	99.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 815



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 7937  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO. CEILING	32.8	33.9	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
≥ 2000	38.4	39.7	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.9	39.9	39.9	39.9	39.9
≥ 1800	38.6	39.8	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	40.0	40.0	40.0	40.0	40.0
≥ 1600	39.7	40.9	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.1	41.1	41.1	41.1	41.1
≥ 1400	40.9	42.1	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.3	42.3	42.3	42.3	42.3
≥ 1200	42.3	43.7	43.9	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.2	44.2	44.2	44.2	44.2
≥ 1000	43.6	45.4	45.7	45.9	45.9	45.9	45.9	46.0	46.0	46.0	46.0	46.1	46.1	46.1	46.1	46.1
≥ 900	44.9	46.8	47.2	47.3	47.3	47.3	47.3	47.4	47.4	47.4	47.4	47.6	47.6	47.6	47.6	47.6
≥ 800	46.5	48.4	48.8	48.9	48.9	48.9	48.9	49.0	49.0	49.0	49.0	49.1	49.1	49.1	49.1	49.1
≥ 700	48.1	50.0	50.4	50.5	50.5	50.5	50.5	50.6	50.6	50.6	50.6	50.7	50.7	50.7	50.7	50.7
≥ 600	49.3	51.2	51.6	51.7	51.7	51.7	51.7	51.8	51.8	51.8	51.8	51.9	51.9	51.9	51.9	51.9
≥ 500	52.1	54.0	54.4	54.5	54.5	54.5	54.5	54.6	54.6	54.6	54.6	54.7	54.7	54.7	54.7	54.7
≥ 450	54.6	56.7	57.2	57.3	57.3	57.3	57.3	57.4	57.4	57.4	57.4	57.5	57.5	57.5	57.5	57.5
≥ 400	58.6	60.9	61.4	61.6	61.6	61.6	61.6	61.7	61.7	61.7	61.7	61.8	61.8	61.8	61.8	61.8
≥ 350	62.2	64.8	65.3	65.5	65.5	65.5	65.5	65.6	65.6	65.6	65.6	65.7	65.7	65.7	65.7	65.7
≥ 300	68.0	71.2	71.7	71.8	71.9	71.9	71.9	72.0	72.0	72.0	72.0	72.1	72.1	72.1	72.1	72.1
≥ 250	73.4	77.1	77.6	77.7	77.9	77.9	77.9	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1
≥ 200	80.0	84.2	84.7	84.9	85.0	85.0	85.0	85.2	85.2	85.2	85.2	85.3	85.3	85.3	85.3	85.3
≥ 180	82.1	86.5	87.0	87.2	87.3	87.3	87.3	87.5	87.5	87.5	87.5	87.6	87.6	87.6	87.6	87.6
≥ 150	84.5	89.2	89.8	90.0	90.3	90.3	90.3	90.4	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.5
≥ 120	86.6	92.2	92.8	93.1	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.6	93.6	93.6	93.6	93.6
≥ 100	87.5	93.2	93.9	94.2	94.5	94.5	94.5	94.6	94.6	94.6	94.6	95.0	95.0	95.0	95.0	95.0
≥ 90	87.7	93.8	94.5	94.8	95.1	95.3	95.3	95.4	95.4	95.4	95.4	95.7	95.7	95.7	95.7	95.7
≥ 80	87.8	94.3	95.0	95.4	95.7	96.0	96.0	96.1	96.1	96.1	96.1	96.5	96.5	96.5	96.5	96.5
≥ 70	87.8	94.4	95.3	95.6	96.2	96.5	96.5	96.7	96.8	96.8	96.8	97.1	97.2	97.2	97.2	97.2
≥ 60	88.1	94.9	95.7	96.1	97.0	97.2	97.2	97.6	97.8	97.8	97.8	98.1	98.2	98.2	98.2	98.2
≥ 50	88.1	95.1	96.1	96.5	97.3	97.6	97.6	98.1	98.3	98.3	98.3	98.7	98.8	98.8	98.8	98.8
≥ 40	88.1	95.1	96.4	96.8	97.8	98.1	98.5	99.0	99.0	99.0	99.0	99.4	99.5	99.5	99.5	99.5
≥ 30	88.1	95.3	96.5	97.0	97.9	98.2	98.8	99.3	99.3	99.3	99.3	99.8	99.8	99.8	99.8	99.8
≥ 20	88.1	95.3	96.5	97.0	98.1	98.3	98.9	99.4	99.4	99.4	99.4	99.9	99.9	99.9	99.9	99.9
≥ 10	88.1	95.3	96.5	97.0	98.1	98.3	98.9	99.4	99.4	99.4	99.4	99.9	99.9	99.9	99.9	99.9
≥ 0	88.1	95.3	96.5	97.0	98.1	98.3	98.9	99.4	99.4	99.4	99.4	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 822

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 7932 SEATTLE/TACOMA IAP, WA

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	40.2	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
≥ 20000	48.1	48.3	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
≥ 18000	48.6	48.8	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 16000	49.4	49.7	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
≥ 14000	51.0	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 12000	53.3	53.6	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
≥ 10000	55.1	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 9000	56.7	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 8000	57.8	58.5	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 7000	59.1	60.0	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 6000	62.1	62.9	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 5000	66.6	67.5	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 4500	70.4	71.7	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 4000	73.9	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 3500	77.7	79.8	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 3000	83.3	85.5	86.1	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 2500	88.0	90.3	91.2	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 2000	90.8	93.3	94.1	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 1800	90.9	93.9	94.7	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 1600	91.7	95.1	96.2	96.7	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1400	92.3	96.4	97.5	98.0	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1200	92.4	96.9	98.2	98.7	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1000	92.4	96.9	98.2	98.7	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 900	92.4	96.9	98.2	98.7	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 800	92.5	97.2	98.5	99.0	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700	92.6	97.4	98.8	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600	92.6	97.5	99.1	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500	92.6	97.5	99.1	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	92.6	97.5	99.1	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	92.6	97.5	99.1	99.6	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	92.6	97.5	99.1	99.6	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	92.6	97.5	99.1	99.6	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	92.6	97.5	99.1	99.6	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 815

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7793 SEATTLE/TACOMA IAP, WA

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2
NO CEILING	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
≥ 20000	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 18000	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
≥ 15000	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 14000	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 12000	55.5	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
≥ 10000	58.3	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
≥ 9000	60.0	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 8000	62.9	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 7000	65.6	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 6000	67.6	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 5000	72.8	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 4500	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 4000	80.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 3500	84.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3000	88.2	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2500	90.0	93.0	93.2	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.6
≥ 2000	91.4	94.9	95.3	95.4	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.9
≥ 1800	92.1	95.9	96.4	96.5	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	97.0
≥ 1500	92.5	96.2	96.7	96.8	97.2	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.7
≥ 1200	92.6	96.4	97.0	97.1	97.4	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.2
≥ 1000	92.6	96.5	97.2	97.3	97.7	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4
≥ 900	92.6	96.5	97.2	97.3	97.7	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4
≥ 800	92.6	97.1	97.9	98.1	98.4	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1
≥ 700	92.6	97.2	98.1	98.2	98.5	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.3
≥ 600	93.0	97.4	98.3	98.4	98.8	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
≥ 500	93.0	97.4	98.3	98.4	98.8	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
≥ 400	93.0	97.4	98.5	98.7	99.0	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
≥ 300	93.0	97.4	98.5	98.7	99.0	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
≥ 200	93.0	97.4	98.5	98.7	99.0	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 100	93.0	97.4	98.5	98.7	99.0	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 0	93.0	97.4	98.5	98.7	99.0	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 823



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

777937 SEATTLE/TACOMA IAP, WA

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	44.2	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
≥ 20000	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
IV 18000	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
IV 16000	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
IV 14000	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
IV 12000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
IV 10000	53.4	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
IV 9000	54.0	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
IV 8000	56.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
IV 7000	59.7	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
IV 6000	62.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
IV 5000	69.3	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
IV 4500	74.9	75.9	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
IV 4000	80.0	81.1	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
IV 3500	83.3	85.0	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
IV 3000	89.6	91.8	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
IV 2500	90.8	93.6	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 2000	92.5	95.6	96.2	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 1800	92.7	95.8	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 1500	93.3	96.9	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 1200	94.1	97.9	98.8	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 1000	94.1	97.9	98.8	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 900	94.1	97.9	98.8	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 800	94.3	98.0	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 700	94.5	98.3	99.1	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 600	94.5	98.3	99.1	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 500	94.5	98.3	99.1	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 400	94.5	98.4	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	94.5	98.4	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	94.5	98.4	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	94.5	98.4	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	94.5	98.4	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 818



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

77937 SEATTLE/TACOMA IAP, WA

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
≥ 2000	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
≥ 1800	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
≥ 1600	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
≥ 1400	48.1	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
≥ 1200	49.4	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
≥ 1000	51.8	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥ 800	52.5	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥ 600	54.6	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 400	57.9	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
≥ 200	59.9	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
≥ 100	65.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 50	70.1	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 20	73.4	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 10	77.0	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 5	84.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 2	88.1	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1	90.2	93.9	94.7	95.0	95.0	95.0	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 0.5	91.0	94.9	95.6	96.0	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 0.2	91.4	95.5	96.2	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 0.1	93.1	97.2	97.9	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 0.05	93.8	98.1	98.8	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 0.02	93.8	98.1	98.8	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 0.01	93.9	98.2	98.9	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 0.005	93.9	98.2	99.0	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 0.002	94.1	98.3	99.2	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0.001	94.1	98.3	99.2	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0.0005	94.1	98.4	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0.0002	94.1	98.4	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0.0001	94.1	98.4	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0.00005	94.1	98.4	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0.00002	94.1	98.4	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0.00001	94.1	98.4	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 826



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
ATC WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7793 SEATTLE/TACOMA IAP, WA

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥1/64	≥1/128	≥1/256	≥1/512
NO CEILING	39.2	39.6	39.6	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
≥20000	43.2	43.6	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
≥18000	43.5	43.9	43.9	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥16000	44.0	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥14000	45.0	45.4	45.4	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
≥12000	46.5	47.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.2	47.2	47.2	47.2	47.2	47.2
≥10000	48.4	49.1	49.2	49.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥9000	49.6	50.4	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
≥8000	51.5	52.3	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥7000	53.6	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7
≥6000	55.8	56.7	56.8	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
≥5000	60.1	61.2	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥4500	63.8	65.2	65.3	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥4000	67.4	69.0	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥3500	71.2	73.2	73.4	73.5	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥3000	77.0	79.5	79.9	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥2500	80.5	83.4	84.0	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.5
≥2000	83.6	87.0	87.7	88.0	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.3
≥1800	84.8	88.4	89.1	89.5	89.6	89.7	89.7	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥1500	86.6	90.5	91.3	91.8	92.0	92.1	92.1	92.1	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥1200	89.0	93.3	94.2	94.7	95.0	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥1000	89.8	94.3	95.3	95.8	96.1	96.2	96.3	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥900	90.1	94.7	95.7	96.3	96.6	96.7	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥800	90.5	95.3	96.3	96.9	97.2	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥700	90.7	95.8	96.8	97.4	97.8	97.9	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥600	91.0	96.3	97.4	98.0	98.4	98.6	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥500	91.1	96.3	97.5	98.1	98.6	98.7	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥400	91.1	96.4	97.7	98.3	98.8	99.0	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥300	91.1	96.5	97.7	98.4	98.9	99.1	99.5	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.8
≥200	91.1	96.5	97.7	98.4	98.9	99.2	99.5	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9
≥100	91.1	96.5	97.7	98.4	98.9	99.2	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥0	91.1	96.5	97.7	98.4	98.9	99.2	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 6568



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 7931

SEATTLE/TACOMA IAP, WA

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING - FEET		VISIBILITY - STATUTE MILES															
		≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005	≥0.0025	≥0.001
NO. OF	FEET	41.6	42.2	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
2	2000	43.5	44.1	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
2	1800	43.5	44.1	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
2	1600	43.5	44.1	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
2	1400	43.7	44.4	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
2	1200	44.7	45.4	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
2	1000	46.2	46.9	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
2	800	46.9	47.5	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
2	600	48.5	49.1	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
2	400	51.1	51.8	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
2	200	53.6	54.3	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
2	100	60.4	61.2	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
2	50	64.3	65.2	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
2	25	66.4	67.3	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
2	15	69.7	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
2	10	75.2	76.2	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
2	5	77.7	78.9	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
2	2	82.6	84.0	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
2	1	85.6	87.1	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2	0.5	88.5	90.1	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
2	0.25	91.1	93.0	93.6	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
2	0.1	92.1	94.4	95.0	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
2	0.05	92.6	95.0	95.6	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
2	0.025	93.1	95.6	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
2	0.01	93.7	96.4	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
2	0.005	94.1	97.2	98.1	98.4	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
2	0.0025	94.1	97.2	98.1	98.4	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
2	0.001	94.2	97.4	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2	0.0005	94.2	97.4	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2	0.00025	94.2	97.4	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2	0.0001	94.2	97.4	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS 798

USAF ETAC

FORM

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AT: WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

77931 SEATTLE/TACOMA IAP, WA

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	210	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	32.4	33.3	33.5	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.8	33.8	33.8	33.9
2 20000	35.6	36.5	36.8	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	37.0	37.0	37.0	37.1
2 18000	35.8	36.6	36.9	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.1	37.1	37.1	37.3
2 16000	36.7	36.9	37.1	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.4	37.4	37.5
2 14000	36.5	37.4	37.6	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.9	37.9	38.0
2 12000	38.1	39.0	39.3	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.5	39.5	39.5	39.6
2 10000	39.8	41.0	41.3	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.5	41.5	41.5	41.6
2 9000	40.5	41.8	42.0	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.3	42.3	42.3	42.4
2 8000	42.0	43.3	43.5	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.8	43.8	43.8	43.9
2 7000	43.5	45.0	45.3	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.5	45.5	45.5	45.6
2 6000	44.8	46.3	46.5	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.8	46.8	46.8	46.9
2 5000	49.3	51.1	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.6	51.6	51.6	51.8
2 4500	53.6	55.5	55.8	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.3
2 4000	55.3	57.3	57.5	57.6	57.6	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.9	57.9	57.9	58.0
2 3500	60.4	62.8	63.3	63.5	63.5	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.8	63.8	63.8	63.9
2 3000	63.1	65.6	66.1	66.4	66.6	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.9	66.9	66.9	67.0
2 2500	65.8	68.5	69.1	69.4	69.6	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.9	69.9	69.9	70.0
2 2000	69.4	72.6	73.6	74.0	74.3	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.6	74.6	74.6	74.8
2 1800	71.6	75.1	76.4	76.8	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.4	77.4	77.4	77.5
2 1600	75.4	79.1	80.5	80.9	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.5	81.5	81.5	81.6
2 1400	81.5	85.6	87.0	87.4	87.6	87.9	87.9	87.9	87.9	87.9	87.9	87.9	88.0	88.0	88.0	88.1
2 1200	83.4	88.1	89.5	89.9	90.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.5	90.5	90.5	90.6
2 1000	83.5	88.4	89.8	90.3	90.5	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.9	90.9	90.9	91.0
2 900	83.9	89.0	90.4	91.0	91.3	91.5	91.5	91.5	91.5	91.5	91.5	91.6	91.6	91.8	91.8	91.9
2 800	85.1	91.1	92.5	93.3	93.5	93.8	93.8	93.9	93.9	93.9	93.9	94.0	94.0	94.1	94.1	94.3
2 700	85.8	92.5	94.1	94.9	95.1	95.4	95.5	95.8	95.8	95.8	95.9	95.9	96.0	96.0	96.0	96.1
2 600	85.9	92.6	94.4	95.3	95.5	95.8	96.0	96.3	96.3	96.3	96.4	96.4	96.5	96.5	96.5	96.6
2 500	85.9	92.8	94.9	96.0	96.5	96.9	97.1	97.4	97.4	97.4	97.5	97.5	97.6	97.6	97.6	97.8
2 400	85.9	93.0	95.6	96.8	97.3	97.6	98.5	98.8	98.8	98.8	99.3	99.3	99.4	99.4	99.4	99.5
2 300	85.9	93.0	95.6	96.8	97.3	97.6	98.6	98.9	98.9	98.9	99.4	99.4	99.5	99.5	99.5	99.6
2 200	85.9	93.0	95.6	96.8	97.3	97.6	98.6	98.9	98.9	98.9	99.4	99.4	99.6	99.6	99.6	100.0
2 100	85.9	93.0	95.6	96.8	97.3	97.6	98.6	98.9	98.9	98.9	99.4	99.4	99.6	99.6	99.6	100.0
2 50	85.9	93.0	95.6	96.8	97.3	97.6	98.6	98.9	98.9	98.9	99.4	99.4	99.6	99.6	99.6	100.0
2 0	85.9	93.0	95.6	96.8	97.3	97.6	98.6	98.9	98.9	98.9	99.4	99.4	99.6	99.6	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 800

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 793

SEATTLE/TACOMA IAP, WA

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0600-0600

CEILING FEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	32.1	33.4	33.8	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
2	33.4	34.9	35.3	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
3	33.4	34.9	35.3	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
4	34.1	35.5	35.9	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
5	35.3	37.3	37.7	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
6	35.6	38.1	38.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
7	38.5	40.0	40.4	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
8	39.0	40.5	40.9	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
9	40.0	41.7	42.0	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
10	41.5	43.2	43.6	43.7	43.7	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
11	43.4	45.2	45.6	45.7	45.7	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
12	47.1	48.9	49.3	49.4	49.4	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
13	49.8	51.7	52.1	52.2	52.2	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
14	51.1	53.0	53.4	53.8	53.8	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
15	53.3	55.9	56.0	56.8	56.8	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
16	56.7	58.9	59.4	59.7	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
17	61.3	63.7	64.2	64.7	64.7	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
18	65.9	68.9	69.7	70.6	70.7	71.0	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
19	68.8	72.0	72.9	74.0	74.1	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
20	72.1	75.9	76.9	78.2	78.5	78.7	78.7	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
21	78.7	82.9	84.1	85.5	85.7	86.1	86.4	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
22	80.3	85.0	86.4	87.8	88.0	88.5	88.8	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
23	81.0	86.0	87.5	88.9	89.2	89.7	89.9	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
24	81.4	86.5	88.2	89.6	89.8	90.3	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
25	82.8	88.3	90.3	91.8	92.1	92.6	93.0	93.2	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
26	83.2	89.4	91.6	93.2	93.5	94.0	94.5	94.8	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
27	83.4	89.9	92.1	93.8	94.0	94.5	95.0	95.3	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
28	83.4	90.1	92.2	94.3	94.5	95.4	96.1	96.3	96.3	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
29	83.4	90.1	92.7	95.0	95.3	96.2	97.1	97.6	97.6	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
30	83.4	90.2	92.9	95.2	95.4	96.3	97.2	98.0	98.0	98.9	98.9	98.9	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1
31	83.4	90.2	92.9	95.2	95.4	96.3	97.2	98.0	98.0	99.0	99.0	99.0	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2
32	83.4	90.2	92.9	95.2	95.4	96.3	97.2	98.0	98.0	99.0	99.0	99.0	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS 785



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 793

SEATTLE/TACOMA IAP, WA

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY - STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
M 2000	37.1	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.6	37.6	37.6	37.6
M 1800	40.7	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.9	40.9	40.9	40.9	40.9
M 1600	40.4	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.4	41.4	41.4	41.4	41.4
M 1400	40.7	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.7	41.7	41.7	41.7	41.7
M 1200	43.2	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.2	44.2	44.2	44.2	44.2
M 1000	44.2	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.2	45.2	45.2	45.2	45.2
M 800	46.3	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.3	47.3	47.3	47.3	47.3
M 600	47.1	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	48.1	48.1	48.1	48.1	48.1
M 400	48.7	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.7	49.7	49.7	49.7	49.7
M 200	50.3	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.8	51.8	51.8	51.8	51.8
M 1800	51.8	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.3	53.3	53.3	53.3	53.3
M 1600	54.1	55.5	55.6	55.6	55.6	55.6	55.7	55.8	55.8	55.8	55.8	56.0	56.0	56.0	56.0	56.0
M 1400	56.0	57.3	57.5	57.5	57.5	57.5	57.6	57.7	57.7	57.7	57.7	57.8	57.8	57.8	57.8	57.8
M 1200	58.7	60.1	60.2	60.2	60.2	60.2	60.4	60.5	60.5	60.5	60.5	60.6	60.6	60.6	60.6	60.6
M 1000	62.4	63.9	64.0	64.0	64.0	64.0	64.1	64.2	64.2	64.2	64.2	64.4	64.4	64.4	64.4	64.4
M 800	65.9	67.9	68.0	68.1	68.1	68.1	68.3	68.4	68.4	68.4	68.4	68.5	68.5	68.5	68.5	68.5
M 600	71.1	73.7	73.9	74.0	74.3	74.3	74.4	74.5	74.5	74.5	74.5	74.7	74.7	74.7	74.7	74.7
M 400	77.5	80.3	80.6	80.9	81.2	81.2	81.3	81.6	81.6	81.6	81.6	81.7	81.7	81.7	81.7	81.7
M 200	78.9	81.7	81.9	82.3	82.6	82.6	82.7	82.9	82.9	82.9	82.9	83.1	83.1	83.1	83.1	83.1
M 1800	83.6	86.8	87.1	87.6	88.1	88.1	88.2	88.5	88.5	88.5	88.5	88.6	88.6	88.6	88.6	88.6
M 1600	86.1	90.1	90.5	91.3	91.8	91.8	92.0	92.2	92.2	92.2	92.2	92.3	92.3	92.3	92.3	92.3
M 1400	87.3	92.3	92.8	93.9	94.4	94.4	94.5	94.7	94.7	94.7	94.7	94.9	94.9	94.9	94.9	94.9
M 1200	87.6	92.8	93.4	94.5	95.0	95.0	95.1	95.4	95.4	95.4	95.4	95.5	95.5	95.5	95.5	95.5
M 1000	87.7	93.2	93.7	94.9	95.4	95.4	95.5	95.7	95.7	95.7	95.7	95.9	95.9	95.9	95.9	95.9
M 800	87.8	93.6	94.2	95.4	96.1	96.1	96.2	96.5	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6
M 600	88.1	94.2	95.0	96.2	97.0	97.0	97.1	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7
M 400	88.1	94.2	95.0	96.4	97.1	97.1	97.2	97.7	97.7	97.7	97.7	97.9	97.9	97.9	97.9	97.9
M 200	88.1	94.2	95.0	96.4	97.2	97.4	97.5	98.0	98.0	98.2	98.2	98.4	98.4	98.4	98.4	98.4
M 1800	88.1	94.2	95.0	96.5	97.6	98.0	98.2	98.9	99.0	99.5	99.5	99.6	99.7	99.7	99.7	99.7
M 1600	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1400	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1200	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1000	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 800	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 600	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 400	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 200	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1800	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1600	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1400	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1200	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1000	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 800	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 600	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 400	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 200	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1800	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1600	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1400	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1200	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1000	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 800	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 600	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 400	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 200	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1800	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1600	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1400	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1200	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1000	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 800	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 600	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 400	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 200	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1800	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1600	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1400	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1200	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 1000	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 800	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 600	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	99.1	99.6	99.6	99.7	100.0	100.0	100.0	100.0
M 400	88.1	94.2	95.0	96.5	97.7	98.1	98.4	99.0	9							



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
A1- WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 793

SEATTLE/TACOMA IAP, WA

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

		VISIBILITY - STATUTE MILES															
		20	26	21	24	23	22	21	2	21	2	24	24	2	25	24	20
1	1000	42.4	42.9	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
2	900	48.7	49.3	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
3	800	49.8	50.4	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
4	700	50.6	51.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
5	600	52.2	52.8	52.9	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
6	500	53.3	54.4	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
7	400	55.4	56.6	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
8	300	57.2	57.8	57.9	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
9	200	59.2	59.9	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
10	100	61.1	61.7	61.8	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
11	50	63.1	64.0	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
12	25	67.1	68.2	68.3	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
13	10	69.1	70.0	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
14	5	73.5	74.5	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
15	2	76.2	77.5	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
16	1	80.6	82.2	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
17	0.5	86.0	88.2	88.6	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
18	0.2	88.7	91.2	91.9	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
19	0.1	90.0	92.6	93.2	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
20	0.05	92.0	95.2	96.0	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
21	0.02	92.1	96.0	97.0	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
22	0.01	92.2	96.2	97.4	97.6	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
23	0.005	92.2	96.4	97.6	97.9	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
24	0.002	92.2	96.5	97.7	98.0	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
25	0.001	92.5	96.7	98.0	98.2	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
26	0.0005	92.5	97.0	98.2	98.5	99.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
27	0.0002	92.5	97.0	98.2	98.5	99.1	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
28	0.0001	92.5	97.1	98.4	98.7	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
29	0.00005	92.5	97.1	98.4	98.7	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
30	0.00002	92.5	97.1	98.4	98.7	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
31	0.00001	92.5	97.1	98.4	98.7	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
32	0.000005	92.6	97.2	98.5	98.9	99.5	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 799



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7793 SEATTLE/TACOMA IAP, WA

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥9	≥8	≥7	≥6	≥5	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥0
NO. CEILING	44.4	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 20000	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
≥ 18000	51.5	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 16000	52.0	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 14000	54.4	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 12000	57.0	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 10000	57.8	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 9000	58.8	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 8000	61.5	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
≥ 7000	65.7	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 6000	70.3	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥ 5000	75.7	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
≥ 4500	79.1	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 4000	82.3	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 3500	86.1	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 3000	89.3	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 2500	92.7	94.0	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 2000	93.5	95.5	95.5	95.7	95.7	95.7	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 1800	93.6	95.6	95.6	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1500	94.1	96.2	96.2	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1200	94.5	97.1	97.1	97.7	97.7	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 1000	94.7	97.4	97.4	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 900	94.9	97.5	97.5	98.1	98.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 800	94.9	97.5	97.5	98.1	98.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 700	95.0	97.6	97.6	98.2	98.2	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600	95.0	97.6	97.6	98.2	98.6	98.6	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 500	95.0	97.6	97.6	98.2	98.6	98.6	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 400	95.0	97.6	97.6	98.5	98.9	98.9	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	95.0	97.6	97.6	98.5	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	95.0	97.6	97.6	98.5	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	95.0	97.6	97.6	98.5	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	95.0	97.6	97.6	98.5	98.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 798

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

1

**JUN**

**1800-2000**

TOTAL NUMBER OF OBSERVATIONS 791

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7793 SEATTLE/TACOMA IAP,WA  
STATION NAME

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	48.8	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥27000	52.2	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥8000	52.4	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥7000	52.6	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥4000	53.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥2000	55.2	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
≥1000	56.4	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
≥900	57.6	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥800	60.1	60.6	60.6	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥700	61.7	62.2	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥600	64.2	64.7	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥500	70.0	70.6	70.6	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥450	74.8	75.5	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥400	77.3	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥350	80.2	81.1	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥300	84.9	86.1	86.1	86.2	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥250	88.5	90.0	90.1	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥200	92.5	94.1	94.2	94.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥1800	93.4	95.1	95.2	95.6	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥1500	94.5	96.1	96.2	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥1200	95.2	97.1	97.2	97.7	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥1000	95.5	97.4	97.5	98.0	98.2	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥900	95.6	97.7	97.9	98.4	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥800	95.6	97.7	97.9	98.4	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥700	95.6	97.7	97.9	98.4	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥600	95.6	97.9	98.0	98.5	98.7	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥500	95.6	97.9	98.0	98.5	98.7	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥400	95.6	97.9	98.0	98.6	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥300	95.6	97.9	98.0	98.6	99.1	99.1	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥200	95.6	97.9	98.0	98.7	99.2	99.2	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥100	95.6	97.9	98.0	98.7	99.2	99.2	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥0	95.6	97.9	98.0	98.7	99.2	99.2	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 799

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AID WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7793 SEATTLE/TACOMA IAP, WA

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	10
NO CEILING	40.9	41.6	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.8	41.8	41.8
1-2500	44.8	45.5	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
2-3000	45.2	45.9	46.0	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
3-4000	45.6	46.3	46.4	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
4-5000	47.7	47.7	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.9	47.9	47.9	47.9
5-6000	48.6	49.3	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
6-7000	50.2	51.0	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
7-8000	51.2	52.0	52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
8-9000	53.2	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.3	54.3	54.3	54.3
9-10000	55.4	56.4	56.5	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
10-11000	58.0	59.0	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
11-12000	62.7	63.8	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.2	64.2	64.2	64.2
12-13000	66.2	67.3	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.7	67.7	67.7	67.7
13-14000	68.7	69.9	70.1	70.2	70.2	70.2	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
14-15000	72.2	73.5	73.7	73.8	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	74.0	74.0	74.0	74.0
15-16000	75.9	77.5	77.7	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
16-17000	79.5	81.4	81.7	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.1	82.1	82.1	82.1
17-18000	83.1	85.3	85.7	86.0	86.1	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
18-19000	84.7	87.0	87.4	87.8	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.1	88.1	88.1	88.1
19-20000	87.0	89.6	90.2	90.6	90.7	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
20-21000	89.5	92.5	93.1	93.6	93.8	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.1	94.1	94.1	94.1
21-22000	90.3	93.7	94.3	94.9	95.1	95.2	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
22-23000	90.5	94.0	94.7	95.3	95.5	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.9
23-24000	90.7	94.3	95.1	95.7	95.9	96.0	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
24-25000	91.2	95.0	95.8	96.4	96.7	96.8	97.0	97.0	97.0	97.0	97.0	97.1	97.1	97.1	97.1	97.1
25-26000	91.4	95.6	96.4	97.1	97.4	97.5	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1
26-27000	91.4	95.6	96.5	97.2	97.6	97.7	98.0	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.3
27-28000	91.4	95.7	96.6	97.5	97.9	98.1	98.4	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
28-29000	91.4	95.7	96.8	97.8	98.2	98.4	99.0	99.2	99.3	99.5	99.5	99.5	99.6	99.6	99.6	99.6
29-30000	91.4	95.7	96.9	97.8	98.3	98.5	99.2	99.4	99.4	99.7	99.7	99.7	99.8	99.8	99.9	99.9
30-31000	91.4	95.7	96.9	97.8	98.3	98.5	99.2	99.4	99.4	99.7	99.7	99.7	99.8	99.8	99.9	100.0
31-32000	91.5	95.8	96.9	97.8	98.3	98.5	99.2	99.4	99.5	99.7	99.7	99.8	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 6367



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

77931 SEATTLE/TACOMA IAP, WA

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO. CEILING ≥ 20000	52.9	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 18000	55.8	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 16000	55.8	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 14000	56.1	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥ 12000	57.1	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 10000	59.5	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 9000	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
≥ 8000	62.3	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 7000	64.1	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 6000	65.4	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 5000	66.9	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 4500	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 4000	73.8	74.0	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 3500	77.4	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 3000	81.1	81.7	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 2500	84.6	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 2000	87.5	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 1800	89.2	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 1500	92.5	93.5	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 1200	94.4	95.8	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 1000	95.0	96.4	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 900	95.2	96.8	97.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 800	95.4	97.4	97.7	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 700	95.4	97.4	97.7	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 600	95.6	97.7	98.1	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 500	95.6	97.7	98.1	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 400	95.8	98.1	98.4	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	95.8	98.1	98.4	99.3	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	95.8	98.1	98.4	99.3	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	95.8	98.1	98.4	99.3	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	95.8	98.1	98.4	99.3	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 832

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

77930 SEATTLE/TACOMA IAP, WA

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128	≥ 1/256	≥ 1/512
NO CEILING	44.6	45.4	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.2	46.2	46.2
≥ 20000	46.6	47.4	48.1	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.3	48.3	48.3
≥ 18000	46.6	47.4	48.1	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.3	48.3	48.3
≥ 16000	47.7	47.8	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.7	48.7	48.7
≥ 14000	47.8	48.8	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.6	49.6	49.6
≥ 12000	49.3	50.2	50.9	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.1	51.1	51.1
≥ 10000	52.2	53.2	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	54.0	54.0	54.0
≥ 9000	52.9	53.9	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.7	54.7	54.7
≥ 8000	54.1	55.1	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	56.0	56.0	56.0
≥ 7000	55.5	56.6	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.4	57.4	57.4
≥ 6000	57.1	58.3	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.1	59.1	59.1
≥ 5000	60.1	61.3	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.2	62.2	62.2
≥ 4500	62.2	63.4	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.2	64.2	64.2
≥ 4000	64.2	65.7	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.7	66.7	66.7
≥ 3500	65.8	67.3	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.2	68.2	68.2
≥ 3000	70.1	71.7	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.6	72.6	72.6
≥ 2500	73.7	75.4	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.4	76.4	76.4
≥ 2000	75.3	77.1	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.1	78.1	78.1
≥ 1800	76.9	78.7	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.8	79.8	79.8
≥ 1500	79.8	82.0	82.8	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.1	83.1	83.1
≥ 1200	84.5	87.8	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.9	88.9	88.9
≥ 1000	85.2	88.8	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.1	90.1	90.1
≥ 900	85.4	89.8	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.1	91.1	91.1
≥ 800	85.8	90.3	91.5	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.8	91.8	91.8
≥ 700	86.4	90.9	92.1	92.3	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.6	92.6	92.6
≥ 600	87.0	91.6	92.9	93.2	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.6	93.6	93.6
≥ 500	87.2	92.2	93.7	94.0	94.2	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.5	94.5	94.5
≥ 400	87.5	93.1	94.8	95.6	95.7	95.7	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.6	96.6	96.6
≥ 300	87.6	93.4	95.5	96.7	97.1	97.1	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.5	98.5	98.5
≥ 200	87.6	93.4	95.5	97.0	97.3	97.3	98.7	98.7	98.7	99.1	99.3	99.3	99.3	99.8	99.8	99.9
≥ 100	87.4	93.4	95.5	97.0	97.3	97.3	98.7	98.7	98.7	99.3	99.4	99.4	99.4	99.9	99.9	100.0
≥ 0	87.6	93.4	95.5	97.0	97.3	97.3	98.7	98.7	98.7	99.3	99.4	99.4	99.4	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 822

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 7931 SEATTLE/TACOMA IAP, WA

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	37.4	39.1	39.5	39.6	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
≥ 20000	39.2	40.9	41.3	41.4	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥ 18000	39.4	41.1	41.4	41.6	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
≥ 16000	39.7	41.4	41.8	41.9	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 14000	40.5	42.2	42.5	42.6	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
≥ 12000	41.6	43.3	43.6	43.7	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 10000	43.5	45.4	45.8	45.9	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥ 9000	45.4	47.4	47.8	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
≥ 8000	46.4	48.4	48.7	48.8	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 7000	47.8	49.7	50.4	50.5	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 6000	49.5	51.4	52.2	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥ 5000	51.6	53.6	54.4	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 4500	53.7	55.7	56.5	56.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 4000	54.9	57.1	58.0	58.1	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
≥ 3500	56.3	58.4	59.3	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥ 3000	60.9	63.1	63.9	64.0	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 2500	62.8	65.1	66.0	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
≥ 2000	65.6	68.0	68.9	69.0	69.1	69.1	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 1800	66.6	69.1	70.0	70.2	70.4	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 1500	70.7	73.6	74.6	74.8	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 1200	74.4	77.9	78.9	79.1	79.3	79.5	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 1000	76.9	81.0	82.0	82.3	82.6	82.7	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 900	77.4	82.1	83.2	83.5	83.8	84.0	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 800	77.6	83.1	84.2	84.4	84.8	84.9	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 700	78.4	84.0	85.2	85.7	86.0	86.3	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 600	79.2	85.8	87.2	88.7	89.1	89.3	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 500	79.6	86.5	88.2	89.8	90.5	90.9	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 400	79.6	87.6	89.4	92.1	92.8	93.2	94.2	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 300	79.7	87.8	89.7	92.7	93.8	94.3	95.9	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 200	79.7	87.8	89.7	92.7	93.8	94.3	96.5	96.7	96.7	97.2	97.3	97.3	98.3	98.3	99.0	99.4
≥ 100	79.7	87.8	89.7	92.7	93.8	94.3	96.7	97.0	97.0	97.6	97.8	97.8	98.8	98.8	99.6	100.0
≥ 0	79.7	87.8	89.7	92.7	93.8	94.3	96.7	97.0	97.0	97.6	97.8	97.8	98.8	98.8	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 823



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

77937 SEATTLE/TACOMA IAP, WA

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0900-1100

CEILING FEET	VISIBILITY - STAT. MILES															
	2.0	2.6	3.1	3.4	3.7	4.0	4.3	4.6	4.9	5.2	5.5	5.8	6.1	6.4	6.7	7.0
NO. 1000	41.7	44.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2 1000	45.3	47.5	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
2 1000	45.8	47.9	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
2 1000	45.9	48.1	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
2 1000	46.9	49.0	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
2 1000	47.5	49.6	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
2 1000	48.9	51.1	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
2 1000	51.0	53.3	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
2 1000	52.3	54.7	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
2 1000	53.1	55.6	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
2 1000	54.6	57.0	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
2 1000	57.5	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
2 1000	58.5	60.9	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
2 1000	60.8	63.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
2 1000	63.3	66.2	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
2 1000	66.1	69.1	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
2 1000	67.8	71.1	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
2 1000	72.9	76.3	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
2 1000	74.3	77.7	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
2 1000	77.7	81.6	82.4	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
2 1000	82.6	87.3	88.1	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
2 1000	84.4	90.0	90.6	91.0	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
2 1000	84.6	90.6	91.4	91.6	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
2 1000	85.1	91.2	92.0	92.4	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
2 1000	85.2	91.8	92.7	93.1	93.7	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
2 1000	85.2	92.5	93.7	94.4	95.3	95.6	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
2 1000	85.2	92.6	93.9	94.8	95.8	96.2	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
2 1000	85.2	92.6	94.1	95.3	96.4	97.1	97.8	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
2 1000	85.2	92.6	94.1	95.6	96.9	97.6	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
2 1000	85.2	92.6	94.1	95.6	96.9	97.6	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
2 1000	85.2	92.6	94.1	95.6	96.9	97.6	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5

TOTAL NUMBER OF OBSERVATIONS 826

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 793 SEATTLE/TACOMA IAP, WA

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO. CEILING	53.2	54.3	54.5	54.5	54.6	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
2 2000	57.7	58.8	59.0	59.0	59.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
2 1800	58.9	60.0	60.2	60.2	60.3	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
2 1600	59.3	60.1	60.3	60.3	60.5	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
2 1400	60.6	61.7	61.9	61.9	62.0	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
2 1200	61.3	62.5	62.8	62.8	62.9	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
2 1000	62.7	64.1	64.4	64.4	64.5	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
2 900	64.0	65.5	65.7	65.7	65.8	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
2 800	65.7	67.2	67.4	67.4	67.5	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
2 700	66.7	68.1	68.4	68.4	68.5	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
2 600	67.4	68.9	69.1	69.1	69.2	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
2 500	69.6	71.2	71.4	71.4	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
2 450	72.5	74.2	74.5	74.5	74.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
2 400	75.5	77.5	77.7	77.7	77.9	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
2 350	78.7	80.8	81.0	81.0	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
2 300	80.4	82.5	82.7	82.7	82.8	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
2 250	84.3	86.7	87.0	87.0	87.1	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2 200	89.2	92.1	92.3	92.3	92.5	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
2 1800	90.5	93.4	93.7	93.7	93.8	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
2 1500	92.2	95.3	95.5	95.5	95.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
2 1200	93.7	97.4	97.7	97.7	97.8	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
2 1000	93.7	97.8	98.1	98.1	98.2	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
2 900	93.8	97.9	98.2	98.3	98.4	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
2 800	93.8	98.1	98.3	98.4	98.5	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
2 700	93.8	98.1	98.3	98.5	98.8	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
2 600	93.8	98.1	98.3	98.5	98.8	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
2 500	93.8	98.1	98.3	98.5	98.8	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
2 400	93.8	98.1	98.3	98.5	98.8	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
2 300	93.8	98.1	98.3	98.5	98.8	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 200	93.8	98.1	98.3	98.5	98.8	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 100	93.8	98.1	98.3	98.5	98.8	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2 0	93.9	98.2	98.4	98.7	98.9	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 822



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7-793 SEATTLE/TACOMA IAP, WA

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2
NO CEILING	55.6	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥20000	59.9	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥1800	60.5	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥1600	61.7	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥1400	64.3	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
≥1200	65.9	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥1000	68.5	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥900	70.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥800	72.6	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥700	74.5	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥600	75.9	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥500	80.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥4500	84.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥4000	87.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥3500	88.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥3000	90.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥2500	93.8	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥2000	96.0	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥1800	96.2	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥1500	96.5	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥1200	96.6	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥1000	96.7	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥900	96.7	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥800	96.7	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥700	96.7	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥600	96.7	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥500	96.7	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥400	96.7	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥300	96.7	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥200	96.7	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥100	96.7	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥0	96.7	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 820



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7723 SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1800-2000

		VISIBILITY - STATUTE MILES															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1000	59.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
2	900	64.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
3	800	64.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
4	700	65.5	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
5	600	66.6	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
6	500	68.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
7	400	71.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
8	300	72.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
9	200	74.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
10	100	76.5	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
11	50	77.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
12	0	81.5	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
13	1000	86.1	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
14	900	87.4	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
15	800	89.5	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
16	700	92.1	94.0	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
17	600	94.2	96.3	96.5	96.5	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
18	500	95.9	98.2	98.4	98.4	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
19	400	96.1	98.5	98.8	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
20	300	96.4	98.9	99.2	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
21	200	96.5	99.0	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
22	100	96.5	99.0	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
23	50	96.5	99.0	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
24	0	96.5	99.0	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
25	1000	96.5	99.0	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
26	900	96.5	99.0	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
27	800	96.5	99.0	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
28	700	96.5	99.0	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
29	600	96.5	99.0	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
30	500	96.5	99.0	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
31	400	96.5	99.0	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
32	300	96.5	99.0	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
33	200	96.5	99.0	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
34	100	96.5	99.0	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
35	0	96.5	99.0	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 827



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 793

SEATTLE/TACOMA IAP, WA

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

2100-2300

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS																
CEILING	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
1000	59.4	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0
900	62.5	63.7	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.2	63.2	63.2	63.2	63.2	63.2	63.2
800	62.5	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.2	63.2	63.2	63.2	63.2	63.2	63.2
700	62.8	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4
600	63.8	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4
500	65.3	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6
400	66.5	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.2	67.2	67.2	67.2	67.2	67.2	67.2
300	68.4	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	69.0	69.0	69.0	69.0	69.0	69.0	69.0
200	69.6	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2
100	71.8	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4
50	73.3	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9
0	75.5	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1
1000	79.4	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1
900	81.2	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9
800	84.2	84.8	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2
700	87.2	88.1	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8
600	91.6	92.6	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3
500	93.9	94.9	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6
400	95.0	96.1	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8
300	95.6	96.7	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6
200	96.6	97.8	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7
100	96.7	97.9	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8
50	97.1	98.3	98.8	98.9	98.9	98.9	98.9	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2
0	97.1	98.3	98.8	98.9	98.9	98.9	98.9	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2
1000	97.1	98.3	98.8	98.9	98.9	98.9	98.9	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2
900	97.1	98.4	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3
800	97.1	98.4	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
700	97.1	98.4	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
600	97.1	98.4	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
500	97.1	98.4	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
400	97.1	98.4	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
300	97.2	98.5	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
200	97.2	98.5	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
100	97.2	98.5	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
0	97.2	98.5	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 825



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 793 SEATTLE/TACOMA IAP, WA

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

		VISIBILITY STATISTICS															
		210	20	24	24	20	24	27	24	24	24	24	24	24	24	24	24
1	1000	50.6	51.7	51.9	51.9	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
2	900	53.9	55.1	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.4	55.4	55.4	55.4	55.4
3	800	54.3	55.4	55.6	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
4	700	54.7	55.8	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
5	600	55.8	57.0	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
6	500	57.0	58.1	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.5	58.5	58.5
7	400	59.1	60.4	60.6	60.6	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
8	300	60.7	62.0	62.1	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3
9	200	62.1	63.4	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.8	63.8	63.8
10	100	63.7	65.1	65.3	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
11	5000	65.1	66.5	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
12	4000	67.9	69.3	69.6	69.6	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
13	3000	71.0	72.5	72.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.9	72.9	72.9
14	2000	73.1	74.7	75.0	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
15	1000	75.5	77.2	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.7	77.7	77.7
16	500	78.5	80.3	80.7	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.9	80.9	80.9	80.9	80.9	80.9
17	250	81.6	83.6	84.0	84.1	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
18	100	84.5	86.7	87.1	87.1	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
19	50	85.6	87.8	88.3	88.3	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
20	20	87.7	90.1	90.6	90.7	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
21	10	89.9	92.8	93.3	93.4	93.5	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
22	5	90.6	93.8	94.3	94.5	94.6	94.8	94.8	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9
23	2	90.8	94.2	94.8	95.0	95.1	95.2	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4
24	1	91.7	94.6	95.2	95.3	95.5	95.6	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8
25	0.5	91.2	94.8	95.5	95.7	95.9	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.3	96.3	96.3
26	0.2	91.4	95.3	96.0	96.4	96.6	96.8	97.0	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1
27	0.1	91.5	95.5	96.2	96.7	97.0	97.2	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
28	0.05	91.5	95.8	96.6	97.3	97.6	97.9	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
29	0.02	91.6	95.9	96.7	97.6	98.1	98.3	98.9	99.0	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2
30	0.01	91.6	95.9	96.7	97.7	98.1	98.4	99.0	99.1	99.1	99.3	99.4	99.4	99.4	99.7	99.7	99.8
31	0.005	91.6	95.9	96.8	97.7	98.1	98.4	99.0	99.1	99.1	99.4	99.4	99.4	99.8	99.8	99.9	100.0
32	0.002	91.6	95.9	96.8	97.7	98.1	98.4	99.0	99.2	99.2	99.4	99.5	99.5	99.8	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 6597

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7793 SEATTLE/TACOMA IAP, WA

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0000-0200

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	24	25	24	23	22	20	20	20	20	20	20	20	20	20	20
NO. CEILING	48.6	51.2	51.3	51.4	51.4	51.4	51.6	51.6	51.6	51.6	51.8	51.8	51.8	51.8	51.8	51.8
2 2000	49.8	52.4	52.5	52.6	52.6	52.6	52.9	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0
2 1800	50.1	52.7	52.9	53.0	53.0	53.0	53.1	53.2	53.2	53.2	53.3	53.3	53.3	53.3	53.3	53.3
2 1500	50.3	53.0	53.1	53.2	53.2	53.2	53.5	53.5	53.5	53.5	53.6	53.6	53.6	53.6	53.6	53.6
2 1400	50.8	53.5	53.6	53.7	53.7	53.7	53.9	53.9	53.9	53.9	54.1	54.1	54.1	54.1	54.1	54.1
2 1200	52.4	55.3	55.4	55.5	55.5	55.5	55.8	55.8	55.8	55.8	55.9	55.9	55.9	55.9	55.9	55.9
2 1000	53.2	56.4	56.5	56.6	56.6	56.6	56.9	56.9	56.9	56.9	57.0	57.0	57.0	57.0	57.0	57.0
2 900	53.7	56.9	57.0	57.1	57.1	57.1	57.4	57.4	57.4	57.4	57.5	57.5	57.5	57.5	57.5	57.5
2 800	54.6	57.8	58.0	58.1	58.1	58.1	58.3	58.3	58.3	58.3	58.4	58.4	58.4	58.4	58.4	58.4
2 700	55.9	59.3	59.4	59.5	59.5	59.5	59.8	59.8	59.8	59.8	59.9	59.9	59.9	59.9	59.9	59.9
2 600	57.7	61.2	61.4	61.5	61.5	61.5	61.7	61.7	61.7	61.7	61.8	61.8	61.8	61.8	61.8	61.8
2 500	61.5	65.0	65.1	65.2	65.2	65.2	65.5	65.5	65.5	65.5	65.6	65.6	65.6	65.6	65.6	65.6
2 450	63.7	67.3	67.4	67.6	67.6	67.6	67.8	67.8	67.8	67.8	67.9	67.9	67.9	67.9	67.9	67.9
2 400	65.7	69.4	69.5	69.6	69.6	69.6	69.9	69.9	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.0
2 350	68.8	72.7	72.8	72.9	72.9	72.9	73.1	73.1	73.1	73.1	73.3	73.3	73.3	73.3	73.3	73.3
2 300	72.2	76.5	76.6	76.9	77.0	77.0	77.3	77.3	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.4
2 250	74.4	79.2	79.5	79.7	79.8	79.8	80.1	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2
2 200	76.8	82.1	82.5	82.7	82.9	82.9	83.2	83.2	83.2	83.2	83.4	83.4	83.4	83.4	83.4	83.4
2 180	78.9	84.3	84.7	84.9	85.2	85.2	85.5	85.5	85.5	85.5	85.7	85.7	85.7	85.7	85.7	85.7
2 150	81.3	87.0	87.4	87.7	88.0	88.0	88.3	88.3	88.3	88.3	88.5	88.5	88.5	88.5	88.5	88.5
2 140	84.3	90.5	90.9	91.3	91.5	91.5	92.0	92.0	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1
2 120	84.7	91.1	91.5	92.0	92.2	92.2	92.7	92.7	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8
2 100	85.2	91.6	92.0	92.5	92.7	92.7	93.2	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3
2 900	85.7	92.7	93.1	93.6	93.8	93.8	94.3	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4
2 800	86.4	93.8	94.2	94.8	95.0	95.0	95.5	95.5	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6
2 700	86.6	94.3	94.7	95.3	95.5	95.5	96.1	96.4	96.4	96.4	96.6	96.6	96.6	96.6	96.6	96.6
2 600	86.8	94.5	95.0	95.9	96.2	96.2	96.8	97.1	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3
2 500	86.6	94.7	95.1	96.0	96.4	96.4	97.0	97.2	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4
2 450	86.9	94.9	95.6	97.0	97.3	97.3	98.2	98.4	98.4	98.4	98.7	98.7	98.7	98.7	98.7	98.7
2 400	86.9	94.9	95.7	97.3	97.7	97.7	98.7	98.9	98.9	98.9	99.4	99.8	99.8	99.8	99.8	99.8
2 350	86.9	94.9	95.7	97.3	97.7	97.7	98.7	98.9	98.9	98.9	99.5	99.9	99.9	99.9	100.0	100.0
2 300	86.9	94.9	95.7	97.3	97.7	97.7	98.7	98.9	98.9	98.9	99.5	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 823

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7793 SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

		IN BOTH STATUTE MILES															
CEILING FEET		20	26	32	38	44	50	56	62	68	74	80	86	92	98	104	110
NO CEILING		34.5	38.6	39.5	40.1	40.2	40.2	40.3	40.3	40.3	40.5	40.5	40.5	40.8	40.8	40.9	40.9
≥ 2000		35.5	39.6	40.5	41.2	41.3	41.3	41.4	41.4	41.4	41.5	41.5	41.5	41.9	41.9	42.0	42.0
≥ 1800		35.7	39.9	40.7	41.4	41.5	41.5	41.7	41.7	41.7	41.8	41.8	41.8	42.1	42.1	42.3	42.3
≥ 1600		35.7	40.1	40.9	41.7	41.8	41.8	41.9	41.9	41.9	42.0	42.0	42.0	42.4	42.4	42.5	42.5
≥ 1400		36.4	40.8	41.7	42.4	42.5	42.5	42.6	42.6	42.6	42.8	42.8	42.8	43.1	43.1	43.2	43.2
≥ 1200		37.1	41.5	42.5	43.2	43.4	43.4	43.5	43.5	43.5	43.6	43.6	43.6	44.0	44.0	44.1	44.1
≥ 1000		38.4	43.0	44.1	44.8	44.9	44.9	45.0	45.0	45.0	45.2	45.2	45.2	45.5	45.5	45.7	45.7
≥ 900		39.0	43.7	44.8	45.5	45.7	45.7	45.8	45.8	45.8	45.9	45.9	45.9	46.3	46.3	46.4	46.4
≥ 800		39.1	44.0	45.0	45.8	45.9	45.9	46.0	46.0	46.0	46.1	46.1	46.1	46.5	46.5	46.6	46.6
≥ 700		40.5	45.5	46.6	47.3	47.5	47.5	47.6	47.7	47.7	47.9	47.9	47.9	48.3	48.3	48.4	48.4
≥ 600		41.7	47.0	48.1	48.8	48.9	48.9	49.0	49.2	49.2	49.4	49.4	49.4	49.8	49.8	49.9	49.9
≥ 500		43.1	48.7	49.9	50.8	51.0	51.0	51.1	51.2	51.2	51.4	51.4	51.4	51.8	51.8	51.9	51.9
≥ 450		44.0	49.5	50.7	51.7	51.8	51.8	51.9	52.1	52.1	52.3	52.3	52.3	52.7	52.7	52.8	52.8
≥ 400		46.5	52.1	53.3	54.2	54.3	54.3	54.5	54.6	54.6	54.8	54.8	54.8	55.2	55.2	55.3	55.3
≥ 350		49.3	55.0	56.2	57.1	57.2	57.2	57.4	57.5	57.5	57.7	57.7	57.7	58.1	58.1	58.2	58.2
≥ 300		53.0	59.4	60.7	61.8	62.0	62.0	62.1	62.2	62.2	62.4	62.4	62.4	62.8	62.8	62.9	62.9
≥ 250		55.9	62.7	64.0	65.1	65.3	65.3	65.6	65.8	65.8	66.1	66.1	66.1	66.4	66.4	66.5	66.5
≥ 200		58.7	65.8	67.4	68.5	68.7	68.7	69.0	69.2	69.2	69.4	69.4	69.4	69.8	69.8	69.9	69.9
≥ 180		60.1	67.4	69.0	70.0	70.4	70.4	70.7	70.9	70.9	71.1	71.1	71.1	71.5	71.5	71.6	71.6
≥ 160		63.2	71.0	72.6	73.8	74.2	74.2	74.4	74.6	74.6	74.9	74.9	74.9	75.2	75.2	75.4	75.4
≥ 140		66.9	75.5	77.2	78.4	78.9	78.9	79.1	79.3	79.3	79.6	79.6	79.6	80.0	80.0	80.1	80.1
≥ 120		68.1	77.1	78.7	80.2	80.7	80.7	81.2	81.4	81.4	81.6	81.6	81.6	82.0	82.0	82.1	82.1
≥ 100		69.3	78.4	80.2	81.6	82.1	82.1	82.6	82.9	82.9	83.1	83.1	83.1	83.5	83.5	83.6	83.6
≥ 80		70.3	79.6	81.5	83.0	83.5	83.5	83.9	84.2	84.2	84.7	84.7	84.7	85.0	85.0	85.1	85.1
≥ 70		71.4	81.3	83.2	84.7	85.1	85.1	85.6	85.9	85.9	86.4	86.4	86.4	86.7	86.7	86.8	86.8
≥ 60		72.9	83.1	85.4	86.8	87.3	87.3	87.9	88.2	88.2	88.6	88.6	88.6	89.0	89.0	89.3	89.3
≥ 50		72.9	83.7	86.2	87.9	88.5	88.5	89.1	89.5	89.5	90.1	90.1	90.1	90.5	90.5	90.7	90.7
≥ 40		73.3	84.2	87.0	89.1	89.9	89.9	90.6	90.9	90.9	91.5	91.5	91.5	91.9	91.9	92.1	92.1
≥ 30		73.6	84.8	87.9	90.6	91.7	91.7	92.5	93.0	93.0	94.3	94.3	94.3	94.8	94.8	95.0	95.0
≥ 20		73.6	84.8	87.9	90.6	91.7	91.8	92.9	93.4	93.4	95.5	95.7	95.7	97.0	97.1	97.8	98.1
≥ 10		73.6	84.8	87.9	90.6	91.7	91.8	92.9	93.4	93.4	95.7	95.9	95.9	98.1	98.2	99.4	99.9
≥ 0		73.6	84.8	87.9	90.6	91.7	91.8	92.9	93.4	93.4	95.7	95.9	95.9	98.1	98.2	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 828

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 7930 SEATTLE/TACOMA IAP,WA

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800

FOOT- FEET	VISIBILITY - STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
23.6	26.9	28.0	28.5	28.7	28.7	29.3	29.5	29.5	29.5	29.6	29.6	29.6	29.6	29.6	29.6	29.6
24.5	28.0	29.6	30.2	30.5	30.5	31.1	31.2	31.2	31.2	31.3	31.3	31.3	31.3	31.3	31.3	31.3
24.5	28.0	29.6	30.2	30.5	30.5	31.1	31.2	31.2	31.2	31.3	31.3	31.3	31.3	31.3	31.3	31.3
24.5	28.0	29.6	30.2	30.5	30.5	31.1	31.2	31.2	31.2	31.3	31.3	31.3	31.3	31.3	31.3	31.3
25.3	28.7	30.3	30.9	31.2	31.2	31.8	31.9	31.9	31.9	32.1	32.1	32.1	32.1	32.1	32.1	32.1
26.4	29.8	31.4	32.1	32.3	32.3	32.9	33.0	33.0	33.0	33.2	33.2	33.2	33.2	33.2	33.2	33.2
27.5	30.9	32.6	33.3	33.5	33.5	34.3	34.4	34.4	34.4	34.5	34.5	34.5	34.5	34.5	34.5	34.5
27.7	31.2	32.8	33.5	33.8	33.8	34.5	34.6	34.6	34.6	34.8	34.8	34.8	34.8	34.8	34.8	34.8
27.9	31.4	33.0	33.8	34.0	34.0	34.9	35.0	35.0	35.0	35.1	35.1	35.3	35.3	35.3	35.3	35.4
28.6	32.4	34.3	35.0	35.3	35.3	36.1	36.3	36.3	36.4	36.6	36.6	36.7	36.7	36.7	36.7	36.9
29.7	33.9	35.9	36.6	36.9	36.9	37.7	37.9	37.9	38.0	38.2	38.2	38.3	38.3	38.3	38.3	38.5
30.9	35.3	37.2	38.0	38.2	38.2	39.1	39.2	39.2	39.3	39.7	39.7	39.8	39.8	39.8	39.8	40.0
32.2	36.6	38.6	39.3	39.6	39.6	40.4	40.6	40.6	40.7	41.1	41.1	41.2	41.2	41.2	41.2	41.3
34.2	38.6	40.6	41.3	41.6	41.6	42.4	42.5	42.5	42.7	43.0	43.0	43.2	43.2	43.2	43.2	43.3
36.1	40.4	42.4	43.2	43.4	43.4	44.3	44.4	44.4	44.5	44.9	44.9	45.0	45.0	45.0	45.0	45.1
40.2	45.4	47.3	48.1	48.5	48.5	49.3	49.4	49.4	49.6	49.9	49.9	50.1	50.1	50.1	50.1	50.2
43.0	48.7	50.7	51.4	51.8	51.8	52.9	53.0	53.0	53.1	53.5	53.5	53.8	53.8	53.8	53.8	53.9
46.6	53.3	55.4	56.4	57.0	57.1	58.2	58.3	58.3	58.4	58.8	58.8	59.1	59.1	59.1	59.1	59.2
48.6	55.5	57.6	58.6	59.3	59.4	60.5	60.7	60.7	60.8	61.2	61.2	61.4	61.4	61.4	61.4	61.5
51.3	58.3	60.4	61.4	62.1	62.3	63.4	63.5	63.5	63.6	64.0	64.0	64.2	64.2	64.2	64.2	64.4
54.7	62.9	65.2	66.2	67.0	67.2	68.3	68.4	68.4	68.6	68.9	68.9	69.2	69.2	69.2	69.2	69.3
58.1	67.0	69.3	70.4	71.1	71.4	72.6	72.7	72.7	72.9	73.2	73.2	73.5	73.5	73.5	73.5	73.6
58.8	68.1	70.5	71.6	72.5	72.7	74.1	74.2	74.2	74.4	74.7	74.7	75.0	75.0	75.0	75.0	75.1
59.3	68.8	71.4	72.5	73.5	73.7	75.2	75.3	75.3	75.7	76.1	76.1	76.3	76.3	76.3	76.3	76.4
60.3	70.0	72.7	74.0	75.0	75.5	77.1	77.4	77.4	77.8	78.2	78.2	78.4	78.4	78.4	78.4	78.5
60.9	71.5	74.4	75.8	76.8	77.3	78.9	79.3	79.3	79.7	80.0	80.0	80.3	80.3	80.3	80.3	80.4
60.9	71.8	74.6	76.3	77.9	78.4	80.3	80.6	80.6	81.4	81.8	81.8	82.0	82.0	82.0	82.0	82.1
61.4	72.4	75.7	77.6	79.3	79.9	82.1	82.6	82.6	83.7	84.1	84.1	84.3	84.3	84.3	84.3	84.5
61.8	72.7	76.6	78.8	80.8	81.5	84.7	85.5	85.5	87.5	88.4	88.4	89.1	89.1	89.1	89.6	90.0
61.8	72.7	76.6	78.8	80.8	81.5	85.0	85.8	85.8	88.5	89.6	89.6	92.0	92.0	92.0	93.6	95.3
61.8	72.7	76.6	78.8	80.8	81.5	85.0	85.8	85.8	88.7	89.8	89.8	93.3	93.3	93.3	96.5	99.9
61.8	72.7	76.6	78.8	80.8	81.5	85.0	85.8	85.8	88.7	89.8	89.8	93.3	93.3	93.3	96.5	100.0

TOTAL NUMBER OF OBSERVATIONS 811

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7793 SEATTLE/TACOMA IAP, WA

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

		VISIBILITY - STATUTE MILES																				
		20	18	16	14	12	10	8	6	4	3	2	1	1/2	1/4	1/8	1/16	1/32	1/64	1/128	1/256	1/512
NO. CEILING		37.8	34.9	35.8	36.3	36.6	36.9	37.1	37.1	37.2	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
2 2000		32.4	36.9	37.7	38.2	38.8	39.1	39.3	39.3	39.4	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
2 1800		32.4	36.9	37.7	38.2	38.8	39.1	39.3	39.3	39.4	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
2 1600		32.6	37.1	38.0	38.4	39.1	39.3	39.5	39.5	39.7	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
2 1400		32.7	37.5	38.3	38.8	39.4	39.7	39.9	39.9	40.0	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
2 1200		33.7	38.4	39.3	39.8	40.4	40.6	40.9	40.9	41.0	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
2 1000		35.3	40.0	40.9	41.4	42.0	42.2	42.6	42.6	42.7	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
2 800		35.6	40.5	41.4	42.0	42.6	42.8	43.2	43.2	43.3	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
2 600		35.8	41.0	41.8	42.5	43.1	43.3	43.8	43.8	43.9	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
2 400		36.6	42.5	43.3	43.9	44.5	44.8	45.3	45.3	45.4	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
2 200		36.9	42.8	43.8	44.5	45.1	45.4	45.9	45.9	46.0	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
2 100		38.6	44.5	45.5	46.6	47.2	47.4	47.9	47.9	48.1	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
2 500		40.8	46.8	47.8	48.9	49.5	49.8	50.2	50.2	50.4	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
2 400		42.9	49.0	50.0	51.1	51.7	51.9	52.4	52.4	52.6	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
2 300		44.5	50.7	51.7	52.8	53.4	53.6	54.1	54.1	54.3	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
2 200		47.8	54.3	55.2	56.4	57.1	57.3	57.8	57.8	57.9	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
2 1500		52.4	59.1	60.1	61.3	62.2	62.4	62.9	62.9	63.0	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
2 1200		57.1	64.6	65.6	66.8	67.6	67.9	68.4	68.4	68.5	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
2 1000		59.1	67.4	68.4	69.7	70.7	70.9	71.5	71.5	71.7	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
2 800		61.9	71.2	72.1	73.8	75.1	75.3	76.2	76.2	76.3	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
2 600		64.5	75.1	76.4	78.3	79.8	80.0	80.9	80.9	81.0	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
2 400		65.5	76.9	78.7	80.7	82.2	82.5	83.5	83.6	83.7	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
2 200		66.1	77.9	79.8	81.9	83.5	83.7	84.8	85.0	85.2	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
2 100		66.3	78.6	80.7	82.8	84.7	84.9	86.3	86.5	86.6	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
2 500		66.8	79.4	81.6	83.8	85.6	85.9	87.5	87.7	87.8	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
2 400		67.0	79.9	82.2	84.7	86.7	87.1	89.3	89.7	89.8	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
2 300		67.2	80.2	82.5	84.9	87.5	88.0	90.6	91.2	91.4	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
2 200		67.2	80.2	82.5	85.0	87.7	88.4	91.4	92.1	92.2	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
2 100		67.2	80.2	82.5	85.0	87.7	88.7	92.0	92.9	93.1	93.5	96.0	96.0	96.0	96.2	96.4	96.5	96.7	96.7	96.7	96.7	96.7
2 500		67.2	80.2	82.5	85.0	87.7	88.8	92.2	93.2	93.3	96.5	97.1	97.1	97.1	97.6	97.8	98.4	99.0	99.0	99.0	99.0	99.0
2 400		67.2	80.2	82.5	85.0	87.7	88.8	92.2	93.2	93.3	96.5	97.2	97.2	97.2	97.9	98.2	98.8	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 822

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
A14 WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7793: SEATTLE/TACOMA IAP, WA

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET		VISIBILITY - STATUTE MILES															
		20	26	31	34	37	40	45	50	54	60	66	70	75	80	85	90
1	1000	46.6	49.8	51.2	51.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
2	1000	48.7	51.3	51.8	52.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
3	1000	48.0	51.3	51.8	52.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
4	1000	49.4	51.7	52.2	53.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
5	1000	49.1	52.6	53.0	53.9	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
6	1000	50.1	53.5	54.1	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
7	1000	51.5	54.4	55.4	56.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
8	1000	52.3	56.0	56.5	57.3	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
9	1000	53.7	57.6	58.0	58.9	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
10	1000	55.4	59.9	60.4	61.2	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
11	1000	56.7	61.2	61.8	62.7	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
12	1000	59.7	63.8	64.4	65.2	66.3	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
13	1000	60.2	65.1	65.7	66.6	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
14	1000	63.7	68.2	69.8	69.6	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
15	1000	65.4	70.6	71.2	72.1	73.5	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
16	1000	68.0	73.4	74.1	75.0	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
17	1000	72.3	78.3	79.0	79.9	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
18	1000	77.7	84.8	85.5	86.5	88.2	88.3	88.3	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5
19	1000	78.8	86.2	87.1	88.0	89.8	89.9	89.9	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1
20	1000	79.8	87.7	88.5	89.5	91.2	91.3	91.5	91.6	91.6	91.7	91.7	91.7	91.8	91.8	91.8	91.8
21	1000	81.1	90.0	91.0	92.0	93.7	93.9	94.3	94.4	94.4	94.5	94.5	94.5	94.6	94.6	94.6	94.6
22	1000	81.1	90.1	91.2	92.4	94.3	94.5	95.0	95.2	95.2	95.6	95.6	95.6	95.7	95.7	95.7	95.7
23	1000	81.2	90.6	91.7	93.0	94.9	95.1	95.9	96.1	96.1	96.5	96.5	96.5	96.6	96.6	96.6	96.6
24	1000	81.3	90.9	92.0	93.3	95.5	95.7	96.6	97.0	97.0	97.3	97.3	97.3	97.4	97.4	97.4	97.4
25	1000	81.3	91.0	92.1	93.7	95.9	96.1	97.0	97.3	97.3	97.7	97.7	97.7	97.7	97.8	97.8	97.8
26	1000	81.3	91.0	92.1	93.7	96.0	96.3	97.4	97.8	97.8	98.2	98.2	98.2	98.3	98.3	98.3	98.3
27	1000	81.3	91.1	92.2	93.8	96.2	96.6	97.7	98.3	98.3	98.7	98.7	98.7	98.8	98.8	98.8	98.8
28	1000	81.3	91.1	92.2	93.8	96.5	96.8	98.5	99.1	99.1	99.5	99.5	99.5	99.6	99.6	99.6	99.6
29	1000	81.3	91.1	92.2	93.8	96.5	96.8	98.5	99.1	99.1	99.5	99.8	99.8	100.0	100.0	100.0	100.0
30	1000	81.3	91.1	92.2	93.8	96.5	96.8	98.5	99.1	99.1	99.5	99.8	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 820



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

77937  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81  
YEAR

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
TIME PERIOD

CEILING FEET	VISIBILITY, STATUTE MILES															
	20	20	24	24	28	28	32	32	36	36	40	40	44	44	48	50
10000	54.1	57.4	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
2 27000	58.2	61.6	61.7	61.8	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
2 18000	58.7	62.1	62.2	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
2 16000	59.1	62.4	62.6	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
2 14000	60.4	63.8	63.9	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
2 12000	61.2	64.6	64.8	64.9	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
2 10000	62.3	65.7	66.0	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
2 9000	63.0	66.5	66.7	66.8	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
2 8000	64.5	67.9	68.2	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
2 7000	65.4	68.8	69.0	69.1	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
2 6000	67.9	71.3	71.6	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
2 5000	72.1	75.7	76.1	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
2 4500	73.4	77.2	77.6	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
2 4000	75.9	79.8	80.2	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
2 3500	78.2	82.2	82.7	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
2 3000	81.2	85.4	85.9	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
2 2500	83.4	88.2	88.7	88.9	89.1	89.1	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
2 2000	86.3	92.3	92.8	93.0	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
2 1800	86.7	93.0	93.5	93.8	94.1	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
2 1500	87.1	93.9	94.5	94.8	95.2	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
2 1200	87.4	94.8	95.5	95.7	96.2	96.2	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
2 1000	87.7	95.4	96.1	96.3	96.8	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
2 900	87.7	95.4	96.1	96.5	97.0	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
2 800	87.7	95.4	96.1	96.5	97.0	97.0	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
2 700	87.7	95.5	96.2	96.7	97.2	97.2	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
2 600	87.7	95.7	96.5	97.0	97.4	97.6	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
2 500	87.7	95.7	96.5	97.0	97.4	97.6	97.9	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
2 400	87.7	95.7	96.6	97.3	97.8	97.9	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2 300	87.7	95.7	96.6	97.3	97.8	97.9	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2 200	87.7	95.7	96.6	97.3	97.8	97.9	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 100	87.7	95.7	96.6	97.3	97.8	97.9	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2 0	87.7	95.7	96.6	97.3	97.8	97.9	99.0	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 820



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 7937 SEATTLE/TACOMA IAP, WA

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1800-2000

CEILING FEET	VISIBILITY, STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	58.6	60.8	60.8	60.9	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
900	61.8	64.0	64.0	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
800	62.1	64.3	64.3	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
700	62.4	65.0	65.0	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
600	63.8	66.3	66.3	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
500	65.3	67.7	67.7	67.8	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
400	66.4	68.8	68.8	68.9	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
300	67.1	69.5	69.5	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
200	68.4	71.2	71.2	71.4	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
100	69.3	72.1	72.1	72.2	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
50	71.6	74.5	74.6	74.8	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
30	74.9	77.9	78.0	78.2	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
20	76.9	80.1	80.2	80.3	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
10	79.2	82.4	82.6	82.8	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
5	82.3	85.7	86.0	86.2	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
3	85.6	89.0	89.3	89.4	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
2	87.6	91.1	91.6	92.0	92.4	92.4	92.4	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5
1	90.0	93.9	94.5	95.3	95.8	95.8	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0
0	90.4	94.4	95.0	95.8	96.2	96.2	96.4	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5
+	91.0	95.1	95.8	96.5	97.0	97.0	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2
+	91.1	95.4	96.1	96.8	97.5	97.5	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8
+	91.1	95.4	96.1	96.8	97.5	97.5	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9
+	91.1	95.4	96.1	96.8	97.5	97.5	97.9	97.9	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1
+	91.1	95.4	96.2	97.0	97.7	97.7	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4
+	91.1	95.4	96.5	97.2	97.9	97.9	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8
+	91.1	95.4	96.5	97.2	97.9	97.9	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8
+	91.1	95.8	96.6	97.3	98.1	98.1	98.9	99.0	99.0	99.4	99.4	99.4	99.4	99.5	99.5	99.5
+	91.1	95.8	96.6	97.3	98.1	98.1	99.0	99.3	99.3	99.6	99.6	99.6	99.6	99.8	99.8	99.8
+	91.1	95.8	96.6	97.3	98.1	98.1	99.0	99.4	99.4	99.9	99.9	99.9	99.9	100.0	100.0	100.0
+	91.1	95.8	96.6	97.3	98.1	98.1	99.0	99.4	99.4	99.9	99.9	99.9	99.9	100.0	100.0	100.0
+	91.1	95.8	96.6	97.3	98.1	98.1	99.0	99.4	99.4	99.9	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 824



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 7931 SEATTLE/TACOMA IAP, WA

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

2100-2300

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO FILING	57.9	59.4	59.4	59.4	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
≥ 2000	59.3	61.1	61.1	61.1	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 1800	59.4	61.3	61.3	61.3	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 1600	59.7	61.5	61.5	61.5	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 1400	60.1	61.9	61.9	61.9	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 1200	62.1	64.0	64.0	64.0	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 1000	63.1	65.1	65.1	65.1	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 800	64.0	66.1	66.1	66.1	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 600	65.4	67.6	67.6	67.6	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 500	66.0	68.3	68.4	68.4	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
≥ 400	67.7	70.3	70.5	70.5	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 300	70.3	73.0	73.1	73.1	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 200	73.1	75.8	75.9	75.9	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
≥ 100	74.8	77.7	77.8	77.8	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 0	78.1	81.1	81.4	81.4	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 2500	82.1	85.4	86.0	86.0	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 2000	84.5	87.8	88.6	88.6	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1800	86.7	90.3	91.2	91.5	92.1	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1600	87.5	91.2	92.0	92.5	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1400	88.5	92.7	93.6	94.1	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1200	89.2	93.8	94.7	95.3	96.2	96.5	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1000	89.6	94.3	95.2	95.8	96.7	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 800	89.7	94.6	95.4	96.0	97.0	97.2	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 600	89.8	94.7	95.6	96.5	97.5	97.7	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 400	90.2	95.2	96.1	97.0	97.9	98.2	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 200	90.3	95.5	96.7	97.6	98.5	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 100	90.3	95.5	96.7	97.6	98.7	98.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 0	90.3	95.5	97.0	97.8	99.0	99.3	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 826

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 7937 SEATTLE/TACOMA IAP, WA

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY, STATUTE MILES															
	20	20	24	24	28	28	28	28	28	28	28	28	28	28	28	28
≥ 12000	44.4	47.4	47.9	48.2	48.5	48.5	48.7	48.7	48.7	48.8	48.8	48.8	48.8	48.8	48.8	48.8
≥ 10000	46.2	49.4	49.9	50.3	50.6	50.7	50.8	50.8	50.8	50.9	50.9	50.9	50.9	50.9	51.0	51.0
≥ 8000	46.4	49.6	50.1	50.5	50.8	50.9	51.0	51.0	51.0	51.1	51.1	51.1	51.1	51.1	51.2	51.2
≥ 6000	46.7	49.9	50.4	50.8	51.1	51.2	51.3	51.3	51.3	51.4	51.4	51.4	51.4	51.4	51.5	51.5
≥ 4000	47.4	50.7	51.2	51.5	51.9	51.9	52.1	52.1	52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥ 3000	48.6	51.9	52.4	52.8	53.2	53.2	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.5	53.5	53.5
≥ 2000	49.7	53.1	53.7	54.1	54.4	54.5	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.8	54.8	54.8
≥ 1800	50.4	53.8	54.4	54.8	55.1	55.2	55.4	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.6	55.6
≥ 1600	51.2	54.9	55.4	55.8	56.2	56.2	56.4	56.4	56.5	56.5	56.6	56.6	56.6	56.6	56.6	56.6
≥ 1400	52.2	56.1	56.7	57.1	57.5	57.5	57.8	57.8	57.8	57.9	57.9	57.9	58.0	58.0	58.0	58.0
≥ 1200	53.4	57.8	58.5	58.9	59.3	59.3	59.5	59.6	59.6	59.7	59.7	59.7	59.8	59.8	59.8	59.8
≥ 1000	56.3	60.5	61.2	61.7	62.1	62.1	62.3	62.4	62.4	62.5	62.5	62.5	62.6	62.6	62.6	62.6
≥ 800	58.1	62.4	63.0	63.5	63.9	63.9	64.2	64.2	64.2	64.3	64.4	64.4	64.4	64.4	64.4	64.5
≥ 600	60.3	64.7	65.4	65.9	66.3	66.3	66.5	66.6	66.6	66.7	66.7	66.7	66.8	66.8	66.8	66.8
≥ 400	62.9	67.3	68.1	68.6	69.0	69.1	69.3	69.3	69.3	69.4	69.5	69.5	69.5	69.5	69.5	69.6
≥ 200	66.3	71.1	72.0	72.5	73.0	73.0	73.3	73.3	73.3	73.4	73.5	73.5	73.5	73.5	73.5	73.5
≥ 100	69.2	74.4	75.3	75.9	76.5	76.5	76.8	76.8	76.9	77.0	77.0	77.0	77.1	77.1	77.1	77.1
≥ 50	72.5	78.4	79.4	80.1	80.7	80.8	81.1	81.2	81.2	81.3	81.4	81.4	81.5	81.5	81.5	81.5
≥ 20	73.8	80.0	80.9	81.7	82.4	82.4	82.8	82.8	82.9	83.0	83.0	83.0	83.1	83.1	83.1	83.1
≥ 10	75.9	82.2	83.1	84.0	84.7	84.8	85.2	85.3	85.3	85.4	85.5	85.5	85.5	85.6	85.6	85.6
≥ 5	77.4	84.8	85.9	86.8	87.6	87.7	88.2	88.3	88.3	88.4	88.5	88.5	88.6	88.6	88.6	88.6
≥ 2	78.3	85.9	87.1	88.1	89.0	89.1	89.7	89.8	89.8	89.9	90.0	90.0	90.1	90.1	90.1	90.1
≥ 1	78.7	86.5	87.8	88.8	89.7	89.8	90.4	90.5	90.6	90.7	90.8	90.8	90.9	90.9	90.9	90.9
≥ 0.5	79.0	87.0	88.3	89.4	90.4	90.5	91.2	91.3	91.4	91.6	91.7	91.7	91.8	91.8	91.8	91.8
≥ 0.2	79.4	87.7	89.1	90.2	91.2	91.4	92.1	92.3	92.3	92.6	92.6	92.6	92.7	92.7	92.7	92.8
≥ 0.1	79.8	88.4	89.8	91.0	92.1	92.3	93.1	93.4	93.4	93.7	93.7	93.7	93.8	93.8	93.9	93.9
≥ 0.05	79.8	88.5	90.1	91.3	92.6	92.8	93.8	94.1	94.1	94.5	94.6	94.6	94.7	94.7	94.7	94.7
≥ 0.02	79.9	88.7	90.4	91.8	93.1	93.4	94.6	95.1	95.1	95.6	95.7	95.7	95.8	95.8	95.8	95.8
≥ 0.01	80.0	88.9	90.6	92.2	93.6	93.9	95.4	96.0	96.0	96.9	97.0	97.0	97.3	97.3	97.4	97.5
≥ 0.005	80.0	88.9	90.7	92.3	93.7	94.0	95.6	96.2	96.2	97.4	97.7	97.7	98.3	98.3	98.7	99.0
≥ 0.002	80.0	88.9	90.7	92.3	93.7	94.0	95.6	96.2	96.2	97.5	97.8	97.8	98.7	98.7	99.3	100.0
≥ 0.001	80.0	88.9	90.7	92.3	93.7	94.0	95.6	96.2	96.2	97.5	97.8	97.8	98.7	98.7	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 6574



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

77930

SEATTLE/TACOMA IAP, WA

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
> 2000	45.1	49.9	51.1	51.4	51.4	51.4	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.9
> 1800	45.8	50.7	51.8	52.2	52.2	52.2	52.4	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.7
> 1600	45.9	50.8	51.9	52.3	52.3	52.3	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.8
> 1400	45.9	50.8	51.9	52.3	52.3	52.3	52.6	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.8
> 1200	46.4	51.3	52.4	52.8	52.8	52.8	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.3
> 1000	48.2	53.1	54.2	54.6	54.6	54.6	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	55.1
> 800	50.7	55.9	57.2	57.6	57.6	57.6	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	58.1
> 600	51.9	57.2	58.4	58.8	58.8	58.8	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.3
> 400	52.9	58.3	59.6	59.9	59.9	59.9	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.5
> 200	54.4	59.9	61.2	61.6	61.6	61.6	61.8	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.1
> 100	55.6	61.3	62.6	63.1	63.1	63.1	63.3	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.6
> 50	57.9	63.8	65.2	65.7	65.7	65.7	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.2
> 25	60.1	66.1	67.5	68.0	68.0	68.0	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.5
> 10	62.2	68.2	69.6	70.1	70.1	70.1	70.3	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.6
> 5	64.3	70.8	72.2	72.7	72.7	72.7	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.2
> 2	67.0	74.0	75.5	76.0	76.0	76.0	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.5
> 1	68.7	76.1	77.6	78.2	78.3	78.3	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.8
> 0.5	71.2	79.3	81.4	82.5	82.7	82.7	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.2
> 0.25	72.3	80.6	82.7	84.0	84.2	84.2	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.7
> 0.15	73.2	82.2	84.6	86.2	86.6	86.6	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.1
> 0.1	75.1	84.9	87.5	89.5	89.9	89.9	90.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.5
> 0.05	76.0	86.1	88.7	90.9	91.2	91.2	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	92.0
> 0.025	76.8	87.1	90.0	92.1	92.5	92.5	92.9	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.2
> 0.015	77.5	88.0	90.9	93.0	93.4	93.4	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.4
> 0.01	77.7	88.4	91.2	93.4	93.7	93.7	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.7
> 0.005	77.8	88.5	91.4	93.6	94.2	94.2	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.2
> 0.0025	77.8	88.6	91.6	93.9	94.5	94.5	95.6	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.0
> 0.0015	77.8	88.9	91.9	94.2	95.4	95.4	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.1
> 0.001	77.8	88.9	91.9	94.4	95.5	95.5	97.0	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.5
> 0.0005	77.8	88.9	91.9	94.4	95.5	95.5	97.4	97.9	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.2
> 0.00025	77.8	88.9	91.9	94.4	95.5	95.5	97.4	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.3
> 0.00015	77.8	88.9	91.9	94.4	95.5	95.5	97.4	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.3
> 0.0001	77.8	88.9	91.9	94.4	95.5	95.5	97.4	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.3

TOTAL NUMBER OF OBSERVATIONS 799

USAF ETAC

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

777930 SEATTLE/TACOMA IAP, WA

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY - STATUTE MILES															
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	10.0
NO. CEILING	33.9	41.6	41.6	42.4	42.4	42.7	42.7	42.7	42.7	42.8	42.8	42.8	42.8	42.8	43.2	43.2
2 2000	34.6	41.6	42.6	43.5	43.5	43.7	43.7	43.7	43.7	43.8	43.8	43.8	43.8	43.8	44.2	44.2
2 1800	34.8	41.7	42.7	43.6	43.6	43.8	43.8	43.8	43.8	44.0	44.0	44.0	44.0	44.0	44.3	44.3
2 1600	34.9	41.8	42.8	43.7	43.7	44.0	44.0	44.0	44.0	44.1	44.1	44.1	44.1	44.1	44.5	44.5
2 1400	35.1	42.1	43.1	44.0	44.0	44.2	44.2	44.2	44.2	44.3	44.3	44.3	44.3	44.3	44.7	44.7
2 1200	36.8	43.8	44.8	45.7	45.7	46.0	46.0	46.0	46.0	46.1	46.1	46.1	46.1	46.1	46.5	46.5
2 1000	38.8	45.8	46.9	47.7	47.7	48.0	48.1	48.1	48.1	48.2	48.2	48.2	48.2	48.2	48.6	48.6
2 800	39.9	47.0	48.0	49.0	49.0	49.2	49.4	49.4	49.4	49.5	49.5	49.5	49.5	49.5	49.9	49.9
2 600	41.3	49.1	50.1	51.1	51.1	51.4	51.5	51.5	51.5	51.6	51.6	51.6	51.6	51.6	52.0	52.0
2 400	42.7	50.5	51.6	52.6	52.6	52.9	53.0	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.5	53.5
2 200	44.3	52.1	53.3	54.3	54.3	54.5	54.7	54.7	54.7	54.8	54.8	54.8	54.8	54.8	55.2	55.2
2 1000	47.5	55.7	56.8	57.8	57.8	58.1	58.2	58.2	58.2	58.3	58.3	58.3	58.3	58.3	58.7	58.7
2 800	49.7	58.2	59.3	60.3	60.3	60.6	60.7	60.7	60.7	60.8	60.8	60.8	60.8	60.8	61.2	61.2
2 600	52.0	60.6	61.8	62.8	62.8	63.1	63.2	63.2	63.2	63.4	63.4	63.4	63.4	63.4	63.7	63.7
2 400	54.9	64.2	65.5	66.5	66.5	66.8	66.9	66.9	66.9	67.0	67.0	67.0	67.0	67.0	67.4	67.4
2 200	57.6	67.1	68.4	69.5	69.5	69.8	69.9	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.4	70.4
2 1000	58.9	69.4	70.8	71.9	72.0	72.3	72.4	72.5	72.5	72.7	72.7	72.7	72.7	72.7	73.0	73.0
2 800	62.0	72.9	74.3	75.7	75.8	76.1	76.2	76.3	76.3	76.4	76.4	76.4	76.4	76.4	76.8	76.8
2 600	63.1	74.4	76.1	77.5	77.7	78.0	78.1	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.7	78.7
2 400	64.7	76.8	78.6	80.2	80.5	80.7	80.9	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.5	81.5
2 200	66.4	79.7	82.2	84.0	84.5	84.8	84.9	85.1	85.1	85.3	85.3	85.3	85.3	85.3	85.6	85.6
2 1000	66.6	80.4	82.9	84.9	85.5	85.8	85.9	86.1	86.1	86.3	86.3	86.3	86.3	86.3	86.6	86.6
2 800	67.0	81.0	83.6	85.8	86.4	86.6	86.8	87.0	87.0	87.2	87.2	87.2	87.2	87.2	87.5	87.5
2 600	67.8	82.0	84.8	86.9	87.5	87.8	87.9	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.7	88.7
2 400	68.1	82.6	85.4	87.5	88.2	88.4	88.7	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.4	89.4
2 200	68.3	83.0	86.0	88.3	89.0	89.3	89.5	89.8	89.8	89.9	89.9	89.9	89.9	89.9	90.3	90.3
2 1000	68.3	83.0	86.1	89.2	89.9	90.2	90.8	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.6	91.6
2 800	68.3	83.2	86.6	90.1	91.2	91.6	92.3	92.6	92.6	92.7	92.7	92.7	92.7	92.7	93.1	93.1
2 600	68.3	83.2	86.6	90.4	92.2	92.6	93.8	94.1	94.1	94.5	94.5	94.5	94.5	94.5	94.8	94.8
2 400	68.3	83.2	86.8	90.8	92.6	92.9	94.7	95.0	95.0	95.5	95.6	95.6	95.6	96.0	96.6	97.0
2 200	68.3	83.2	86.8	90.8	92.6	92.9	94.8	95.1	95.1	95.6	96.0	96.0	96.0	96.3	97.7	99.1
2 1000	68.3	83.2	86.8	90.8	92.6	92.9	94.8	95.1	95.1	95.6	96.0	96.0	96.0	96.3	97.7	100.0

TOTAL NUMBER OF OBSERVATIONS 794

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 793 SEATTLE/TACOMA IAP, WA

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS:

3600-0600

HEIGHT FEET		VISIBILITY STATUTE MILES																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
100	28.4	33.5	35.4	36.9	37.2	37.2	37.8	37.9	37.9	38.3	38.5	38.5	39.1	39.1	39.3	39.3			
200	29.6	34.7	36.8	38.3	38.5	38.5	39.2	39.3	39.3	39.7	39.9	39.9	40.5	40.5	40.7	40.7			
300	29.8	34.9	36.9	38.4	38.7	38.7	39.3	39.4	39.4	39.8	40.1	40.1	40.6	40.6	40.8	40.8			
400	29.9	35.0	37.1	38.5	38.8	38.8	39.4	39.6	39.6	39.9	40.2	40.2	40.7	40.7	41.0	41.0			
500	31.4	36.5	38.7	40.2	40.5	40.5	41.2	41.3	41.3	41.7	42.0	42.0	42.5	42.5	42.7	42.7			
600	32.4	37.5	39.7	41.2	41.5	41.5	42.2	42.4	42.4	42.7	43.0	43.0	43.5	43.5	43.8	43.8			
700	33.3	38.8	41.0	42.5	42.7	42.7	43.5	43.6	43.6	44.0	44.3	44.3	44.8	44.8	45.0	45.0			
800	34.1	39.6	41.7	43.3	43.5	43.5	44.3	44.4	44.4	44.8	45.0	45.0	45.5	45.5	45.8	45.8			
900	35.2	40.7	43.0	44.5	44.8	44.8	45.5	45.7	45.7	46.1	46.3	46.3	46.8	46.8	47.1	47.1			
1000	35.9	41.3	43.8	45.5	45.9	45.9	46.7	46.8	46.8	47.2	47.5	47.5	48.0	48.0	48.2	48.2			
1100	38.2	43.9	46.3	48.1	48.5	48.5	49.2	49.4	49.4	49.7	50.0	50.0	50.5	50.5	50.8	50.8			
1200	39.7	45.5	48.0	49.7	50.1	50.1	50.9	51.0	51.0	51.4	51.7	51.7	52.2	52.2	52.4	52.4			
1300	41.5	47.8	50.3	52.0	52.5	52.5	53.3	53.4	53.4	53.8	54.1	54.1	54.6	54.6	54.8	54.8			
1400	44.1	51.1	53.6	55.3	55.9	55.9	56.7	56.9	56.9	57.3	57.5	57.5	58.0	58.0	58.3	58.3			
1500	45.3	52.5	55.1	56.9	57.4	57.4	58.3	58.4	58.4	58.9	59.2	59.2	59.7	59.7	59.9	59.9			
1600	47.5	55.7	58.4	60.7	61.2	61.2	62.1	62.2	62.2	62.7	63.0	63.0	63.5	63.5	63.7	63.7			
1700	51.0	60.4	63.5	66.0	66.8	67.0	68.2	68.3	68.3	68.8	69.1	69.1	69.6	69.6	69.8	69.8			
1800	52.4	62.8	66.0	68.7	69.5	69.7	71.1	71.2	71.2	71.8	72.1	72.1	72.6	72.6	72.9	72.9			
1900	53.6	64.1	67.4	70.2	71.4	71.8	73.2	73.4	73.4	73.9	74.3	74.3	74.8	74.8	75.1	75.1			
2000	54.6	66.7	70.2	73.5	74.7	75.3	76.8	77.1	77.1	77.7	78.1	78.1	78.6	78.6	79.0	79.0			
2100	55.7	69.0	72.6	76.0	77.2	78.0	79.5	80.0	80.0	80.7	81.0	81.0	81.6	81.6	81.9	81.9			
2200	56.0	69.5	73.2	76.5	77.7	78.5	80.0	80.5	80.5	81.2	81.6	81.6	82.1	82.1	82.4	82.4			
2300	56.2	70.1	73.9	77.2	78.5	79.3	80.8	81.3	81.3	81.9	82.3	82.3	82.8	82.8	83.2	83.2			
2400	56.4	70.4	74.4	77.9	79.3	80.0	81.7	82.2	82.2	82.8	83.2	83.2	83.7	83.7	84.1	84.1			
2500	56.6	71.0	75.7	79.5	80.9	81.7	83.7	84.2	84.2	84.9	85.2	85.2	85.8	85.8	86.1	86.1			
2600	56.6	71.0	75.8	79.6	81.6	82.3	84.5	85.1	85.1	85.8	86.1	86.1	86.6	86.6	87.0	87.0			
2700	56.7	71.1	76.1	80.2	82.4	83.3	85.9	86.8	86.8	87.8	88.2	88.2	88.7	88.7	89.2	89.2			
2800	56.7	71.1	76.1	80.2	82.8	84.0	87.3	88.5	88.7	90.5	90.8	90.8	91.6	91.6	92.4	92.4			
2900	56.7	71.1	76.1	80.4	83.1	84.5	87.8	89.3	89.4	91.9	92.5	92.5	93.8	93.8	95.2	96.2			
3000	56.7	71.1	76.1	80.4	83.1	84.5	87.9	89.4	89.6	92.1	92.9	92.9	94.5	94.5	96.4	98.3			
3100	56.7	71.1	76.1	80.4	83.1	84.5	87.9	89.4	89.6	92.1	92.9	92.9	94.5	94.5	96.6	100.0			

TOTAL NUMBER OF OBSERVATIONS 786

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 703  
TIMESEATTLE/TACOMA IAP, WA  
STATION NAME73-81  
YEARSEP  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS0900-1100  
TIME PERIOD

WIND DIRECTION (DEGREES)		WIND VELOCITY (KNOTS)																			
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
000	090	34.3	40.7	41.2	41.7	42.7	42.8	43.1	43.2	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.4	43.4	43.4	43.4
010	090	36.7	42.7	43.2	43.7	44.7	44.8	45.1	45.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.4	45.4	45.4	45.4
020	090	36.7	42.7	43.2	43.7	44.7	44.8	45.1	45.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.4	45.4	45.4	45.4
030	090	36.7	42.7	43.2	43.7	44.7	44.8	45.1	45.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.4	45.4	45.4	45.4
040	090	37.1	43.1	43.6	44.1	45.1	45.2	45.4	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.8	45.8	45.8	45.8
050	090	38.3	44.4	44.9	45.4	46.4	46.6	46.8	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.2	47.2	47.2	47.2
060	090	39.3	45.4	45.9	46.4	47.4	47.6	47.8	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.2	48.2	48.2	48.2
070	090	39.3	46.1	46.6	47.1	48.1	48.2	48.4	48.6	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.8	48.8	48.8	48.8
080	090	40.2	46.7	47.2	47.7	48.7	48.8	49.1	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.4	49.4	49.4	49.4
090	090	42.1	46.6	49.1	49.6	50.6	50.7	50.9	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.3	51.3	51.3	51.3
100	090	42.7	49.3	49.9	50.4	51.4	51.6	51.8	51.9	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.2	52.2	52.2	52.2
110	090	44.9	51.9	52.6	53.1	54.1	54.2	54.4	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.8	54.8	54.8	54.8
120	090	46.7	54.1	54.7	55.2	56.3	56.4	56.7	56.8	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	57.1	57.1	57.1	57.1
130	090	48.3	56.2	56.8	57.3	58.4	58.6	58.8	58.9	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.2	59.2	59.2	59.2
140	090	50.1	58.4	59.2	59.7	60.8	61.0	61.3	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.7	61.7	61.7	61.7
150	090	52.9	62.5	63.3	64.2	65.5	65.8	66.0	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.4	66.4	66.4	66.4
160	090	56.4	67.2	68.1	69.0	70.4	70.7	71.3	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.7	71.7	71.7	71.7
170	090	59.3	70.9	71.9	72.9	74.5	74.9	75.8	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.2	76.2	76.2	76.2
180	090	61.2	73.3	74.3	75.5	77.2	77.5	78.4	78.5	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.8	78.8	78.8	78.8
190	090	62.8	75.9	77.2	78.4	80.1	80.5	81.5	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.9	81.9	81.9	81.9
200	090	64.0	77.9	79.4	80.8	83.0	83.5	85.1	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.5	85.5	85.5	85.5
210	090	64.8	79.4	80.9	82.3	84.5	85.0	86.6	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	87.0	87.0	87.0	87.0
220	090	64.9	79.7	81.1	82.8	85.1	85.6	87.3	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.6	87.6	87.6	87.6
230	090	64.9	80.0	81.5	83.1	85.9	86.6	88.4	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.8	88.8	88.8	88.8
240	090	65.2	80.9	82.6	84.4	87.3	88.0	90.0	90.1	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.5	90.5	90.5	90.5
250	090	65.4	81.3	83.4	85.3	88.1	88.9	91.0	91.3	91.4	91.5	91.9	91.9	91.9	91.9	91.9	91.9	92.0	92.0	92.0	92.0
260	090	65.4	81.4	83.5	85.5	88.5	89.3	91.8	92.1	92.3	92.5	92.9	92.9	92.9	92.9	92.9	92.9	93.0	93.0	93.0	93.0
270	090	65.5	81.5	83.6	86.0	89.0	89.8	92.5	93.1	93.3	93.9	94.3	94.3	94.3	94.3	94.3	94.3	94.4	94.4	94.4	94.4
280	090	65.5	81.6	83.8	86.3	89.3	90.0	93.4	94.8	94.9	96.0	96.5	96.5	96.5	96.5	96.5	96.5	97.0	97.1	97.3	97.4
290	090	65.5	81.6	83.8	86.3	89.3	90.0	93.5	95.1	95.3	97.1	97.8	97.8	97.8	97.8	97.8	97.8	98.6	98.8	98.9	99.5
300	090	65.5	81.6	83.8	86.3	89.3	90.0	93.5	95.1	95.3	97.1	97.8	97.8	97.8	97.8	97.8	97.8	98.6	98.8	98.9	99.5
310	090	65.5	81.6	83.8	86.3	89.3	90.0	93.5	95.1	95.3	97.1	97.8	97.8	97.8	97.8	97.8	97.8	98.6	98.8	98.9	99.5

TOTAL NUMBER OF OBSERVATIONS 801

USAF ETAC 0-14-5 POL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
JAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7793 SEATTLE/TACOMA IAP, WA  
STATION CLERK

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1200-1400

		VISIBILITY - STATUTE MILES															
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
1	1000	47.1	49.5	49.7	50.3	51.3	51.3	51.5	51.5	51.5	51.6	51.6	51.6	51.6	51.6	51.6	51.6
2	900	51.1	53.9	54.3	54.8	55.8	55.8	56.0	56.0	56.0	56.2	56.2	56.2	56.2	56.2	56.2	56.2
3	800	51.5	54.3	54.8	55.3	56.3	56.3	56.5	56.5	56.5	56.7	56.7	56.7	56.7	56.7	56.7	56.7
4	700	52.7	54.9	55.4	55.9	56.9	56.9	57.2	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3
5	600	52.5	55.5	56.0	56.5	57.6	57.6	57.8	57.8	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9
6	500	53.9	57.2	57.8	58.3	59.3	59.3	59.6	59.6	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7
7	400	54.7	58.1	58.7	59.2	60.2	60.2	60.5	60.5	60.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6
8	300	55.2	58.7	59.3	59.8	60.8	60.8	61.1	61.1	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2
9	200	55.5	59.2	59.8	60.3	61.3	61.3	61.6	61.6	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7
10	100	57.6	61.2	61.8	62.3	63.4	63.4	63.6	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7
11	80	59.2	62.8	63.5	64.0	65.0	65.0	65.2	65.2	65.2	65.4	65.4	65.4	65.4	65.4	65.4	65.4
12	60	62.7	67.1	68.0	68.5	69.5	69.5	69.8	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9
13	45	64.7	69.1	70.0	70.5	71.5	71.5	71.8	71.8	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9
14	30	67.1	71.5	72.5	73.0	74.1	74.1	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4
15	15	70.4	74.9	75.9	76.4	77.5	77.5	77.7	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8
16	10	73.4	78.5	79.5	80.1	81.1	81.1	81.4	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5
17	5	78.2	84.1	85.3	86.0	87.3	87.3	87.7	87.7	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8
18	2	80.4	86.8	88.2	88.9	90.3	90.3	90.7	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8
19	1	81.1	87.8	89.4	90.2	91.6	91.6	91.9	91.9	91.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1
20	0	82.1	88.9	90.7	91.4	92.9	92.9	93.3	93.3	93.3	93.5	93.5	93.5	93.5	93.5	93.5	93.5
21	12.5	82.9	89.8	91.8	92.7	94.3	94.3	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8
22	10	83.5	90.4	92.4	93.6	95.3	95.3	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8
23	7.5	83.5	90.7	92.7	94.0	95.7	95.7	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7
24	5	83.5	90.8	92.8	94.2	96.0	96.0	97.0	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1
25	2.5	83.5	90.8	92.8	94.2	96.1	96.5	97.5	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6
26	1	83.8	91.1	93.1	94.5	96.5	96.9	98.2	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5
27	0.5	83.8	91.2	93.3	94.7	96.7	97.1	98.7	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
28	0.25	83.8	91.2	93.3	94.7	96.9	97.2	98.9	99.0	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2
29	0.1	83.8	91.2	93.3	94.8	97.0	97.6	99.2	99.5	99.5	99.7	99.9	99.9	99.9	99.9	99.9	99.9
30	0.05	83.8	91.2	93.3	94.8	97.0	97.6	99.2	99.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0
31	0.025	83.8	91.2	93.3	94.8	97.0	97.6	99.2	99.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0
32	0.01	83.8	91.2	93.3	94.8	97.0	97.6	99.2	99.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 794



GENERAL CLIMATOLOGY BRANCH  
JAFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 793 SEATTLE/TACOMA IAP, WA

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1500-1700

VISIBILITY (STATUTE MILES)																
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	50.7	53.7	54.2	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
900	55.1	58.1	58.6	58.6	58.7	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
800	55.2	58.3	58.8	58.8	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
700	55.2	58.3	58.8	58.8	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
600	56.2	59.5	60.0	60.0	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
500	58.3	61.9	62.4	62.4	62.5	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
400	59.2	63.4	63.9	63.9	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
300	60.0	64.1	64.6	64.6	64.7	64.7	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
200	62.0	66.1	66.6	66.6	66.8	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
100	63.6	67.9	68.5	68.5	68.6	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
50	66.1	70.5	71.1	71.1	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
25	70.0	74.4	75.0	75.0	75.2	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
10	72.9	77.3	77.9	77.9	78.0	78.0	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
5	75.8	80.3	80.9	80.9	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
2	78.2	82.8	83.6	83.6	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
1	82.4	87.5	88.3	88.6	88.8	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
0.5	85.2	91.0	92.0	92.3	92.6	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
0.25	86.6	92.7	93.9	94.5	95.1	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
0.15	86.8	93.1	94.2	94.9	95.5	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
0.1	87.2	93.6	94.7	95.7	96.5	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
0.075	87.2	93.7	95.1	96.2	97.1	97.6	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
0.05	87.2	93.9	95.2	96.7	97.7	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
0.025	87.2	93.9	95.2	96.7	97.7	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
0.015	87.2	94.0	95.4	97.0	98.0	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
0.01	87.2	94.0	95.4	97.0	98.0	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
0.0075	87.2	94.0	95.5	97.1	98.2	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
0.005	87.2	94.0	95.5	97.1	98.2	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
0.0025	87.2	94.0	95.5	97.1	98.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0.0015	87.2	94.0	95.7	97.4	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.001	87.2	94.0	95.7	97.4	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.00075	87.2	94.0	95.7	97.4	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.0005	87.2	94.0	95.7	97.4	98.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 797



2

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7-793

SEATTLE/TACOMA IAP, WA

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000

		VISIBILITY - STATUTE MILES															
		20	25	30	34	40	45	50	55	60	65	70	75	80	85	90	95
1	1000	54.2	56.5	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
2	2000	57.7	60.1	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
3	3000	58.1	60.4	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
4	4000	58.6	61.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
5	5000	60.4	63.0	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
6	6000	62.1	65.0	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
7	7000	63.2	66.2	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
8	8000	64.7	67.8	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
9	9000	66.1	69.1	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
10	10000	69.1	72.1	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
11	11000	72.4	75.9	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
12	12000	74.9	79.2	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
13	13000	76.7	80.9	81.4	81.4	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
14	14000	79.0	83.7	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
15	15000	82.2	87.2	88.0	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
16	16000	85.7	91.3	92.5	92.7	92.8	92.8	92.8	92.8	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0
17	17000	87.1	93.4	94.6	94.9	95.0	95.0	95.0	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1
18	18000	87.6	94.0	95.2	95.5	95.6	95.6	95.6	95.7	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9
19	19000	88.3	95.0	96.2	96.5	96.6	96.6	96.7	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1
20	20000	88.7	95.4	96.6	96.9	97.1	97.1	97.4	97.6	97.6	97.9	97.9	97.9	97.9	97.9	97.9	97.9
21	21000	88.8	95.5	96.9	97.4	97.6	97.6	97.9	98.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4
22	22000	89.7	95.7	97.1	97.6	98.0	98.0	98.2	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7
23	23000	89.7	95.7	97.1	97.7	98.1	98.1	98.4	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9
24	24000	89.0	95.7	97.1	97.7	98.1	98.2	98.5	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0
25	25000	89.0	95.9	97.2	97.9	98.2	98.4	98.7	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
26	26000	89.0	96.0	97.4	98.0	98.4	98.5	98.9	99.1	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4
27	27000	89.0	96.0	97.4	98.0	98.4	98.5	99.0	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
28	28000	89.0	96.0	97.4	98.0	98.4	98.6	99.1	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
29	29000	89.0	96.0	97.4	98.0	98.4	98.6	99.1	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
30	30000	89.0	96.0	97.4	98.0	98.4	98.6	99.1	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 797

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AL WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 723 SEATTLE/TACOMA IAP, WA

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

ELEVATION		VISIBILITY - STATUTE MILES															
		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
2	10000	54.6	58.0	58.9	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
2	8000	56.5	59.9	60.8	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
2	6000	56.9	60.3	61.1	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
2	4000	57.1	60.5	61.4	61.6	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
2	2000	57.4	60.8	61.6	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
2	1000	57.7	61.4	62.4	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
2	800	58.5	62.3	63.3	63.5	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
2	600	59.2	63.1	64.2	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
2	400	60.5	64.7	65.7	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
2	200	61.3	65.4	66.4	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
2	100	62.6	67.2	68.2	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
2	50	66.7	71.4	72.6	72.8	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
2	25	69.7	74.7	75.8	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
2	10	70.7	75.8	77.0	77.2	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
2	5	73.2	79.0	80.1	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
2	2	76.4	83.3	84.9	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
2	1	79.5	87.4	89.1	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
2	0.5	81.0	90.1	91.7	91.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
2	0.25	81.4	90.4	92.1	92.3	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
2	0.1	82.9	91.9	93.7	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
2	0.05	83.8	92.8	94.6	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
2	0.025	84.3	93.6	95.3	95.6	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
2	0.01	84.7	94.0	95.7	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
2	0.005	84.7	94.1	95.8	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
2	0.0025	84.7	94.1	95.8	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
2	0.001	84.7	94.1	95.8	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
2	0.0005	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.00025	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.0001	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.00005	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.000025	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.00001	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.000005	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.0000025	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.000001	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.0000005	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.00000025	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.0000001	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.00000005	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.000000025	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.00000001	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.000000005	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.0000000025	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.000000001	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.0000000005	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.00000000025	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.0000000001	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.00000000005	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.000000000025	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.00000000001	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.000000000005	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.0000000000025	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.000000000001	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.0000000000005	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.00000000000025	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.0000000000001	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.00000000000005	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.000000000000025	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.00000000000001	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.000000000000005	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.0000000000000025	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.000000000000001	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.0000000000000005	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.00000000000000025	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.0000000000000001	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.00000000000000005	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.000000000000000025	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
2	0.00000000000000001	85.2	95.1	96.9	97.2	98.0	98.1	98.2	98.2	98.2	98.2	98.4	98.4	98.4	98.4</		



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7793

SEATTLE/TACOMA IAP, WA

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
> 10000	43.5	47.8	48.6	49.1	49.4	49.5	49.6	49.7	49.7	49.8	49.8	49.8	49.9	49.9	50.0	50.0
2 20000	45.9	50.2	51.1	51.6	51.9	51.9	52.1	52.2	52.2	52.3	52.3	52.3	52.4	52.4	52.5	52.5
2 18000	46.1	50.4	51.3	51.8	52.1	52.1	52.3	52.4	52.4	52.5	52.5	52.5	52.6	52.6	52.7	52.7
2 16000	46.2	50.6	51.4	51.9	52.2	52.3	52.5	52.5	52.5	52.6	52.6	52.6	52.7	52.7	52.8	52.8
2 14000	46.7	51.0	51.9	52.4	52.7	52.8	53.0	53.0	53.0	53.1	53.1	53.1	53.2	53.2	53.3	53.3
2 12000	48.2	52.7	53.6	54.1	54.4	54.5	54.7	54.7	54.7	54.8	54.8	54.8	54.9	54.9	55.0	55.0
2 10000	49.5	54.2	55.1	55.6	55.9	56.0	56.2	56.3	56.3	56.4	56.4	56.4	56.5	56.5	56.5	56.6
2 9000	50.4	55.2	56.1	56.6	56.9	57.0	57.2	57.3	57.3	57.3	57.4	57.4	57.4	57.5	57.5	57.6
2 8000	51.4	56.5	57.4	57.9	58.2	58.3	58.5	58.5	58.5	58.6	58.7	58.7	58.7	58.7	58.8	58.8
2 7000	52.9	57.9	58.9	59.4	59.8	59.8	60.0	60.1	60.1	60.2	60.2	60.2	60.3	60.3	60.3	60.4
2 6000	54.5	59.6	60.6	61.2	61.5	61.6	61.8	61.8	61.9	61.9	62.0	62.0	62.0	62.0	62.1	62.1
2 5000	57.6	63.1	64.1	64.7	65.0	65.1	65.3	65.3	65.3	65.4	65.5	65.5	65.5	65.5	65.6	65.6
2 4500	59.8	65.6	66.6	67.2	67.5	67.6	67.8	67.9	67.9	68.0	68.0	68.0	68.0	68.1	68.1	68.2
2 4000	61.8	67.7	68.8	69.4	69.8	69.8	70.0	70.1	70.1	70.2	70.2	70.2	70.3	70.3	70.4	70.4
2 3500	64.3	70.7	71.8	72.4	72.8	72.8	73.1	73.1	73.1	73.2	73.2	73.2	73.3	73.3	73.4	73.4
2 3000	67.2	74.1	75.3	76.0	76.5	76.6	76.8	76.8	76.9	76.9	77.0	77.0	77.0	77.1	77.1	77.1
2 2500	70.0	77.8	79.2	80.1	80.6	80.7	81.0	81.0	81.2	81.2	81.2	81.3	81.3	81.3	81.3	81.4
2 2000	72.3	80.8	82.4	83.4	84.1	84.2	84.6	84.7	84.7	84.8	84.8	84.8	84.9	84.9	85.0	85.0
2 1800	73.3	82.1	83.8	84.8	85.5	85.7	86.0	86.1	86.1	86.2	86.3	86.3	86.4	86.4	86.5	86.5
2 1500	74.4	83.6	85.4	86.6	87.4	87.6	88.0	88.1	88.1	88.2	88.3	88.3	88.3	88.3	88.4	88.4
2 1200	75.4	85.1	87.2	88.6	89.5	89.7	90.3	90.4	90.4	90.6	90.6	90.6	90.7	90.7	90.8	90.8
2 1000	75.9	86.0	88.2	89.7	90.7	90.9	91.5	91.7	91.7	91.8	91.9	91.9	91.9	91.9	92.0	92.0
2 900	76.2	86.5	88.6	90.2	91.2	91.5	92.1	92.3	92.3	92.4	92.5	92.5	92.6	92.6	92.7	92.7
2 800	76.4	86.9	89.0	90.7	91.7	92.1	92.8	92.9	92.9	93.1	93.1	93.1	93.2	93.2	93.3	93.3
2 700	76.5	87.1	89.4	91.0	92.2	92.5	93.3	93.5	93.5	93.7	93.7	93.7	93.8	93.8	93.9	93.9
2 600	76.7	87.5	89.9	91.7	92.9	93.3	94.2	94.4	94.4	94.6	94.7	94.7	94.8	94.8	94.9	94.9
2 500	76.7	87.6	90.0	91.9	93.2	93.6	94.7	95.0	95.0	95.2	95.3	95.3	95.3	95.3	95.4	95.5
2 400	76.7	87.6	90.2	92.2	93.7	94.2	95.4	95.7	95.8	96.0	96.1	96.1	96.2	96.2	96.3	96.4
2 300	76.7	87.7	90.2	92.4	94.0	94.6	96.1	96.6	96.6	97.1	97.2	97.2	97.4	97.4	97.6	97.6
2 200	76.7	87.7	90.3	92.5	94.1	94.7	96.4	97.0	97.0	97.7	97.9	97.9	98.3	98.3	98.6	98.9
2 100	76.7	87.7	90.3	92.5	94.1	94.7	96.4	97.0	97.1	97.8	98.1	98.1	98.4	98.4	98.9	99.6
2 00	76.7	87.7	90.3	92.5	94.1	94.7	96.4	97.0	97.1	97.8	98.1	98.1	98.4	98.4	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 6363

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIP WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7793 SEATTLE/TACOMA IAP, WA

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200

		VISIBILITY (STATUTE MILES)															
		20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
2	10000	30.8	39.1	41.3	43.5	44.4	44.6	45.1	45.2	45.2	45.5	45.6	45.6	45.8	45.8	45.8	46.1
2	9000	31.9	40.6	42.8	45.3	46.3	46.6	47.1	47.2	47.2	47.4	47.5	47.5	47.8	47.8	47.8	48.0
2	8000	32.1	40.8	43.1	45.6	46.6	46.8	47.3	47.4	47.4	47.7	47.8	47.8	48.0	48.0	48.0	48.3
2	7000	32.4	41.1	43.3	45.8	46.8	47.1	47.5	47.7	47.7	47.9	48.0	48.0	48.3	48.3	48.3	48.5
2	6000	32.7	41.4	43.6	46.2	47.2	47.4	47.9	48.0	48.0	48.3	48.4	48.4	48.7	48.7	48.7	48.9
2	5000	33.5	42.5	44.9	47.4	48.4	48.7	49.1	49.3	49.3	49.5	49.6	49.6	49.9	49.9	49.9	50.1
2	4000	34.1	43.4	45.7	48.4	49.4	49.6	50.1	50.2	50.2	50.5	50.6	50.6	50.9	50.9	50.9	51.1
2	3000	35.8	45.1	47.5	50.2	51.2	51.5	52.0	52.1	52.1	52.3	52.5	52.5	52.7	52.7	52.7	52.9
2	2000	36.9	46.3	48.8	51.5	52.5	52.7	53.2	53.3	53.3	53.6	53.7	53.7	53.9	53.9	53.9	54.2
2	1800	38.7	48.4	50.9	53.6	54.5	54.8	55.3	55.4	55.4	55.6	55.8	55.8	56.0	56.0	56.0	56.3
2	1600	39.8	50.0	52.5	55.1	56.1	56.4	56.9	57.0	57.0	57.2	57.4	57.4	57.6	57.6	57.6	57.8
2	1400	43.5	54.0	56.5	59.2	60.2	60.4	60.9	61.0	61.0	61.3	61.4	61.4	61.6	61.6	61.6	61.9
2	1200	46.1	57.8	60.5	63.4	64.3	64.6	65.1	65.2	65.2	65.4	65.6	65.6	65.8	65.8	65.8	66.1
2	1000	48.2	60.4	63.6	66.4	67.5	67.8	68.3	68.4	68.4	68.6	68.8	68.8	69.0	69.0	69.0	69.2
2	900	51.3	64.3	67.9	71.0	72.2	72.4	72.9	73.0	73.0	73.3	73.4	73.4	73.7	73.7	73.7	73.9
2	800	55.3	69.6	73.3	76.3	77.7	77.9	78.4	78.6	78.6	78.8	78.9	78.9	79.2	79.2	79.2	79.4
2	700	57.0	71.4	75.2	78.9	80.3	80.5	81.0	81.1	81.1	81.4	81.5	81.5	81.7	81.7	81.7	82.0
2	600	58.8	73.4	77.2	81.1	82.5	82.7	83.6	83.7	83.7	83.9	84.1	84.1	84.3	84.3	84.3	84.6
2	500	59.6	74.5	78.3	82.4	83.7	83.9	84.8	84.9	84.9	85.2	85.3	85.3	85.5	85.5	85.5	85.8
2	400	61.4	76.3	80.1	84.3	85.7	85.9	86.8	86.9	86.9	87.1	87.3	87.3	87.5	87.5	87.5	87.7
2	300	64.3	79.7	83.6	87.9	89.2	89.5	90.4	90.6	90.6	90.8	90.9	90.9	91.2	91.2	91.2	91.4
2	200	65.1	80.4	84.3	88.6	90.0	90.2	91.2	91.3	91.3	91.5	91.7	91.7	91.9	91.9	91.9	92.2
2	100	65.1	80.5	84.4	89.1	90.4	90.7	91.7	91.8	91.8	92.0	92.2	92.2	92.4	92.4	92.4	92.6
2	80	65.1	80.6	84.6	89.2	90.7	90.9	92.0	92.2	92.2	92.4	92.5	92.5	92.8	92.8	92.8	93.0
2	70	65.2	80.8	84.7	89.3	90.8	91.1	92.2	92.3	92.3	92.5	92.6	92.6	92.9	92.9	92.9	93.1
2	60	65.4	81.1	85.2	90.1	91.5	91.8	92.9	93.0	93.0	93.3	93.4	93.4	93.6	93.6	93.6	93.9
2	50	65.4	81.1	85.2	90.1	91.5	91.8	93.0	93.1	93.1	93.4	93.5	93.5	93.8	93.8	93.8	94.0
2	40	65.4	81.1	85.2	90.4	91.9	92.2	93.4	93.6	93.6	93.9	94.0	94.0	94.2	94.2	94.2	94.5
2	30	65.4	81.3	85.4	90.8	92.6	92.9	94.2	94.5	94.5	94.7	94.9	94.9	95.1	95.1	95.3	95.8
2	20	65.4	81.3	85.4	90.8	93.0	93.3	94.6	95.0	95.0	95.3	95.5	95.5	96.3	96.3	96.6	97.9
2	10	65.4	81.3	85.4	90.9	93.1	93.4	94.7	95.1	95.1	95.5	95.6	95.6	96.6	96.6	97.2	99.4
2	0	65.4	81.3	85.4	90.9	93.1	93.4	94.7	95.1	95.1	95.5	95.6	95.6	96.6	96.6	97.2	100.0

TOTAL NUMBER OF OBSERVATIONS 816



GENERAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 793 SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

		VISIBILITY STATUTE MILES															
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
1	1000	19.5	26.8	28.9	31.0	31.7	31.8	33.3	33.5	33.5	33.5	33.9	33.9	34.3	34.3	35.0	35.1
2	900	21.1	28.8	30.8	32.9	33.8	33.9	35.5	35.9	35.9	36.0	36.4	36.4	36.8	36.8	37.7	37.8
3	800	21.2	28.9	31.0	33.0	33.9	34.0	35.6	36.0	36.0	36.1	36.5	36.5	37.0	37.0	37.8	37.9
4	700	21.4	29.1	31.2	33.3	34.1	34.3	35.9	36.2	36.2	36.4	36.7	36.7	37.2	37.2	38.1	38.2
5	600	21.8	29.5	31.6	33.7	34.5	34.6	36.2	36.6	36.6	36.7	37.1	37.1	37.6	37.6	38.4	38.6
6	500	22.4	30.5	32.7	34.8	35.6	35.7	37.3	37.7	37.7	37.8	38.2	38.2	38.7	38.7	39.5	39.7
7	400	24.0	32.2	34.4	36.5	37.3	37.5	39.0	39.4	39.4	39.5	39.9	39.9	40.4	40.4	41.2	41.4
8	300	25.2	33.5	36.2	38.3	39.2	39.3	40.9	41.2	41.2	41.4	41.7	41.7	42.2	42.2	43.1	43.2
9	200	25.7	34.1	37.0	39.0	39.9	40.0	41.6	42.1	42.1	42.2	42.6	42.6	43.1	43.1	43.9	44.1
10	100	27.5	36.0	38.8	40.9	41.7	41.9	43.5	43.9	43.9	44.1	44.4	44.4	44.9	44.9	45.8	45.9
11	0	29.1	38.4	41.2	43.3	44.2	44.3	45.9	46.4	46.4	46.5	46.9	46.9	47.4	47.4	48.2	48.3
12	4500	32.4	42.4	45.3	47.4	48.2	48.3	49.9	50.4	50.4	50.6	50.9	50.9	51.4	51.4	52.3	52.4
13	4000	34.8	45.0	48.1	50.2	51.0	51.2	52.8	53.2	53.2	53.4	53.7	53.7	54.2	54.2	55.1	55.2
14	3500	36.7	47.2	50.3	52.6	53.5	53.6	55.2	55.7	55.7	55.8	56.2	56.2	56.7	56.7	57.5	57.6
15	3000	39.2	51.2	54.5	56.9	57.8	57.9	59.5	60.0	60.0	60.1	60.5	60.5	61.0	61.0	61.8	61.9
16	2500	42.0	54.7	58.3	61.0	61.9	62.1	63.6	64.1	64.1	64.3	64.6	64.6	65.1	65.1	66.0	66.1
17	2000	45.3	58.1	61.9	64.7	65.7	65.9	67.6	68.1	68.1	68.2	68.5	68.5	69.0	69.0	69.9	70.0
18	1800	47.2	60.5	64.5	67.4	68.5	68.7	70.5	71.0	71.0	71.2	71.6	71.6	72.1	72.1	72.9	73.1
19	1600	49.0	62.5	66.6	69.6	70.7	70.9	72.7	73.2	73.2	73.6	73.9	73.9	74.4	74.4	75.3	75.4
20	1400	50.6	64.3	68.3	71.5	72.6	72.7	74.7	75.2	75.4	75.9	76.3	76.3	76.7	76.7	77.6	77.7
21	1200	53.4	67.3	71.4	74.7	75.9	76.0	78.1	78.6	78.8	79.3	79.7	79.7	80.2	80.2	81.0	81.2
22	1000	55.0	69.2	73.3	76.6	77.8	78.0	80.0	80.5	80.8	81.3	81.6	81.6	82.1	82.1	83.0	83.1
23	900	55.3	69.5	73.8	77.2	78.6	78.8	80.9	81.4	81.6	82.1	82.5	82.5	83.0	83.0	83.8	84.0
24	800	55.6	70.4	74.7	78.2	79.6	79.8	81.9	82.4	82.6	83.1	83.5	83.5	84.0	84.0	84.8	84.9
25	700	56.1	71.1	75.5	79.2	80.8	81.0	83.1	83.6	83.8	84.3	84.7	84.7	85.2	85.2	86.0	86.2
26	600	56.2	71.4	75.8	79.6	81.2	81.4	83.6	84.1	84.3	84.8	85.2	85.2	85.7	85.7	86.5	86.7
27	500	56.3	71.7	76.4	80.4	82.0	82.3	84.7	85.2	85.4	86.0	86.4	86.4	86.9	86.9	87.8	87.9
28	400	56.4	72.0	76.7	81.0	83.1	83.4	85.8	86.3	86.5	87.1	87.5	87.5	88.0	88.0	88.9	89.0
29	300	56.4	72.2	77.0	81.3	83.8	84.1	86.8	87.3	87.5	88.2	88.7	88.7	89.2	89.2	90.2	90.3
30	200	56.4	72.2	77.0	81.4	84.0	84.3	87.4	88.0	88.2	89.7	90.2	90.2	90.8	90.8	92.0	93.5
31	100	56.4	72.2	77.0	81.5	84.1	84.5	87.5	88.2	88.5	90.3	90.8	90.8	91.8	91.8	94.9	98.5
32	0	56.4	72.2	77.0	81.5	84.1	84.5	87.5	88.2	88.5	90.3	90.8	90.8	91.8	91.8	94.9	100.0

TOTAL NUMBER OF OBSERVATIONS 817



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 793 SEATTLE/TACOMA IAP, WA

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

G600-0800

		VISIBILITY (STATUTE MILES)																			
		2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	
1500	15.5	21.3	22.9	24.0	24.6	24.9	26.5	26.7	26.7	27.5	28.2	28.2	29.2	29.3	29.6	30.1					
1400	17.6	23.1	25.3	26.5	27.1	27.5	29.2	29.6	29.6	30.4	31.2	31.2	32.2	32.3	32.6	33.3					
1300	17.6	23.1	25.3	26.5	27.1	27.5	29.2	29.6	29.6	30.4	31.2	31.2	32.2	32.3	32.6	33.3					
1200	17.6	23.1	25.3	26.5	27.1	27.5	29.2	29.6	29.6	30.4	31.2	31.2	32.2	32.3	32.6	33.3					
1100	19.4	24.9	27.1	28.4	29.0	29.3	31.1	31.4	31.4	32.3	33.0	33.0	34.0	34.1	34.5	35.1					
1000	20.9	26.5	28.9	30.1	30.7	31.1	32.8	33.1	33.1	34.0	34.7	34.7	35.7	35.8	36.2	36.9					
900	21.6	27.5	29.8	31.1	31.7	32.2	33.9	34.2	34.2	35.1	35.8	35.8	36.9	37.0	37.4	38.1					
800	22.1	28.1	30.4	31.7	32.3	32.8	34.5	34.8	34.8	35.7	36.4	36.4	37.5	37.7	38.0	38.8					
700	23.1	29.1	31.4	32.6	33.3	33.7	35.5	35.8	35.8	36.7	37.4	37.4	38.5	38.6	39.0	39.7					
600	24.2	30.2	32.5	33.7	34.4	34.8	36.6	36.9	36.9	37.8	38.5	38.5	39.6	39.7	40.1	41.0					
500	26.5	32.5	35.0	36.3	37.0	37.5	39.2	39.6	39.6	40.5	41.2	41.2	42.3	42.4	42.8	43.6					
400	29.1	35.9	39.0	40.3	41.1	41.6	43.4	43.8	43.8	44.6	45.4	45.4	46.5	46.6	46.9	47.9					
300	31.2	38.0	41.1	42.5	43.4	44.0	45.8	46.2	46.2	47.1	47.8	47.8	48.9	49.0	49.4	50.4					
200	33.5	40.6	43.6	45.1	46.0	46.6	48.4	48.8	48.8	49.6	50.4	50.4	51.5	51.6	52.0	52.9					
100	36.7	44.6	47.9	49.6	50.5	51.1	52.9	53.3	53.3	54.2	54.9	54.9	56.0	56.1	56.5	57.5					
0	39.2	48.0	51.5	53.4	54.4	55.0	56.8	57.2	57.2	58.1	58.8	58.8	59.9	60.0	60.4	61.4					
1500	41.1	50.4	54.0	56.1	57.1	57.7	59.5	59.9	59.9	60.9	61.6	61.6	62.7	62.8	63.2	64.2					
1400	43.6	54.0	58.2	60.6	61.7	62.3	64.2	64.5	64.5	65.6	66.4	66.4	67.5	67.6	68.0	68.9					
1300	44.3	54.6	58.8	61.2	62.3	63.0	64.9	65.3	65.3	66.5	67.2	67.2	68.3	68.5	68.8	69.8					
1200	46.0	56.5	60.6	63.1	64.2	64.8	66.9	67.2	67.5	68.7	69.4	69.4	70.5	70.7	71.0	72.0					
1100	48.3	59.3	63.4	66.0	67.2	67.8	70.2	70.5	70.8	72.1	72.9	72.9	74.2	74.3	74.7	75.7					
1000	49.4	60.6	64.8	67.5	68.7	69.8	72.4	72.7	73.0	74.4	75.2	75.2	76.7	76.8	77.1	78.1					
900	49.5	60.8	65.0	67.7	68.9	70.2	72.7	73.1	73.3	74.8	75.6	75.6	77.0	77.1	77.5	78.5					
800	50.5	61.9	66.3	69.1	70.3	71.6	74.2	74.6	74.8	76.3	77.0	77.0	78.5	78.6	79.0	80.0					
700	50.7	62.7	67.1	69.9	71.1	72.5	75.2	75.6	75.8	77.5	78.2	78.2	79.7	79.8	80.2	81.2					
600	51.0	63.0	67.8	70.9	72.2	73.6	76.3	76.7	76.9	78.7	79.5	79.5	80.9	81.1	81.5	82.5					
500	51.2	63.4	68.7	72.0	73.5	74.8	77.6	78.1	78.4	80.3	81.1	81.1	82.5	82.6	83.1	84.1					
400	51.2	63.8	69.2	72.6	74.3	75.7	78.6	79.2	79.6	82.0	82.8	82.8	84.2	84.4	84.8	85.8					
300	51.2	63.9	69.3	72.9	74.7	76.3	79.7	80.4	80.8	84.1	84.8	85.1	86.7	86.8	87.4	88.5					
200	51.2	63.9	69.3	72.9	74.7	76.3	80.6	81.5	81.9	85.6	86.3	86.6	89.0	89.2	90.7	93.6					
100	51.2	63.9	69.3	72.9	74.7	76.3	80.6	81.5	81.9	85.7	86.6	86.9	89.9	90.1	92.8	98.8					
0	51.2	63.9	69.3	72.9	74.7	76.3	80.6	81.5	81.9	85.7	86.6	86.9	90.0	90.2	92.9	100.0					

TOTAL NUMBER OF OBSERVATIONS 818



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

71703 SEATTLE/TACOMA IAP, WA

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
NO CEILING	17.5	23.2	24.8	26.4	27.9	28.2	28.4	28.6	28.7	29.3	29.4	29.4	29.5	29.5	29.8	30.3
≥ 2000	20.7	26.7	28.4	30.0	32.0	32.3	32.8	32.9	33.0	33.7	33.8	33.8	34.1	34.1	34.4	34.9
≥ 1800	21.3	27.1	28.8	30.4	32.3	32.7	33.2	33.3	33.4	34.0	34.1	34.1	34.6	34.6	34.9	35.4
≥ 1600	21.3	27.3	29.3	30.7	32.7	33.0	33.5	33.7	33.8	34.6	34.8	34.8	35.2	35.2	35.5	36.0
≥ 1400	22.7	28.6	30.6	32.3	34.3	34.6	35.1	35.2	35.4	36.2	36.3	36.3	36.8	36.8	37.1	37.5
≥ 1200	24.4	30.9	32.7	34.4	36.3	36.8	37.3	37.4	37.5	38.4	38.5	38.5	39.0	39.0	39.2	39.7
≥ 1000	25.0	31.8	33.7	35.4	37.3	37.9	38.4	38.5	38.6	39.5	39.6	39.6	40.1	40.1	40.3	40.8
≥ 900	25.8	32.7	34.5	36.2	38.2	38.8	39.2	39.4	39.5	40.3	40.5	40.5	40.9	40.9	41.2	41.7
≥ 800	26.6	33.5	35.4	37.1	39.0	39.6	40.1	40.2	40.3	41.2	41.3	41.3	41.8	41.8	42.0	42.5
≥ 700	27.9	34.9	36.7	38.4	40.3	40.9	41.4	41.6	41.7	42.5	42.6	42.6	43.1	43.1	43.4	43.9
≥ 600	30.1	37.1	38.9	40.6	42.5	43.1	43.6	43.7	43.9	44.7	44.8	44.8	45.3	45.3	45.6	46.1
≥ 500	32.7	40.3	42.2	43.9	45.8	46.4	46.9	47.0	47.1	48.0	48.1	48.1	48.6	48.6	48.8	49.3
≥ 4500	36.2	44.2	46.1	47.9	49.8	50.4	50.9	51.0	51.2	52.0	52.1	52.1	52.6	52.6	52.9	53.3
≥ 4000	39.2	47.5	49.3	51.2	53.1	53.7	54.2	54.3	54.4	55.3	55.4	55.4	55.9	55.9	56.1	56.7
≥ 3500	39.9	48.4	50.3	52.1	54.1	54.7	55.2	55.3	55.5	56.4	56.5	56.5	57.0	57.0	57.2	57.8
≥ 3000	43.6	53.1	55.2	57.0	59.3	59.9	60.4	60.5	60.8	61.6	61.7	61.7	62.2	62.2	62.5	63.1
≥ 2500	45.1	55.5	57.7	59.5	62.0	62.6	63.1	63.2	63.4	64.3	64.4	64.4	64.9	64.9	65.1	65.7
≥ 2000	47.1	58.6	60.9	62.9	65.6	66.2	67.0	67.2	67.4	68.4	68.5	68.5	69.0	69.0	69.3	69.9
≥ 1800	48.8	60.8	63.2	65.4	68.3	68.9	69.6	69.9	70.1	71.1	71.2	71.2	71.7	71.7	71.9	72.5
≥ 1500	51.2	64.0	66.5	68.7	71.7	72.3	73.0	73.3	73.5	74.5	74.6	74.6	75.1	75.1	75.3	75.9
≥ 1200	52.9	67.2	69.9	72.2	75.3	76.1	76.8	77.2	77.4	78.4	78.5	78.5	79.0	79.0	79.2	79.8
≥ 1000	53.7	69.3	72.3	75.1	78.4	79.2	80.1	80.4	80.7	81.9	82.0	82.0	82.5	82.5	82.7	83.4
≥ 900	53.8	69.4	72.4	75.2	78.5	79.3	80.2	80.6	80.8	82.0	82.1	82.1	82.6	82.6	82.9	83.5
≥ 800	53.9	69.7	72.8	75.6	78.9	79.8	80.7	81.2	81.4	82.6	82.7	82.7	83.2	83.2	83.5	84.1
≥ 700	54.2	70.1	73.3	76.2	79.6	80.7	81.5	82.1	82.4	83.6	83.7	83.7	84.2	84.2	84.4	85.1
≥ 600	54.2	70.5	74.1	77.4	80.9	82.3	83.4	84.0	84.2	85.7	85.8	85.8	86.3	86.3	86.5	87.1
≥ 500	54.2	70.5	74.1	77.6	81.3	82.6	83.8	84.6	84.9	86.8	87.1	87.1	87.6	87.6	87.8	88.5
≥ 400	54.2	70.5	74.2	78.0	81.9	83.2	85.1	86.1	86.8	89.1	89.6	89.6	90.5	90.5	90.9	91.5
≥ 300	54.2	70.5	74.2	78.0	81.9	83.2	85.4	86.6	87.2	90.3	91.3	91.3	92.5	92.5	93.0	93.8
≥ 200	54.2	70.5	74.2	78.0	81.9	83.2	85.5	86.8	87.4	90.8	92.0	92.0	93.6	93.6	94.5	97.7
≥ 100	54.2	70.5	74.2	78.0	81.9	83.2	85.5	86.8	87.4	90.8	92.0	92.0	93.6	93.6	95.1	99.5
≥ 0	54.2	70.5	74.2	78.0	81.9	83.2	85.5	86.8	87.4	90.8	92.0	92.0	93.6	93.6	95.1	100.0

TOTAL NUMBER OF OBSERVATIONS 823

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 793

SEATTLE/TACOMA IAP, WA

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET		VISIBILITY - STATUTE MILES															
		20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
2	1000	28.1	34.2	36.3	37.3	39.0	39.1	40.2	40.4	40.7	40.8	40.8	40.8	40.8	40.8	40.8	40.8
2	900	32.1	38.3	40.4	41.7	43.6	43.7	45.0	45.3	45.3	45.5	45.6	45.6	45.6	45.6	45.6	45.6
2	800	32.5	38.8	40.9	42.2	44.1	44.2	45.5	45.8	45.8	46.0	46.1	46.1	46.1	46.1	46.1	46.1
2	700	32.9	39.2	41.4	42.7	44.5	44.7	46.0	46.2	46.2	46.5	46.6	46.6	46.6	46.6	46.6	46.6
2	600	33.7	40.0	42.2	43.6	45.4	45.5	46.8	47.1	47.1	47.3	47.5	47.5	47.5	47.5	47.5	47.5
2	500	35.7	42.5	44.8	46.1	48.1	48.2	49.5	49.8	49.8	50.0	50.1	50.1	50.1	50.1	50.1	50.1
2	400	36.8	43.7	46.0	47.5	49.4	49.5	50.8	51.1	51.1	51.3	51.5	51.5	51.5	51.5	51.5	51.5
2	300	37.6	44.5	46.8	48.3	50.2	50.4	51.7	51.9	51.9	52.2	52.3	52.3	52.3	52.3	52.3	52.3
2	200	39.1	46.0	48.3	49.8	51.7	51.8	53.2	53.4	53.4	53.6	53.8	53.8	53.8	53.8	53.8	53.8
2	100	40.7	47.6	49.9	51.3	53.4	53.5	54.9	55.1	55.1	55.3	55.5	55.5	55.5	55.5	55.5	55.5
2	50	43.1	50.0	52.3	53.9	55.9	56.1	57.4	57.6	57.6	57.9	58.0	58.0	58.0	58.0	58.0	58.0
2	25	46.4	53.5	55.8	57.4	59.6	59.7	61.0	61.3	61.3	61.5	61.7	61.7	61.7	61.7	61.7	61.7
2	10	48.7	56.8	59.1	60.7	62.9	63.0	64.3	64.6	64.6	64.8	64.9	64.9	64.9	64.9	64.9	64.9
2	5	50.6	58.9	61.2	62.7	64.9	65.2	66.5	66.7	66.7	67.0	67.1	67.1	67.1	67.1	67.1	67.1
2	2	52.1	60.8	63.2	64.8	67.1	67.4	68.8	69.1	69.1	69.3	69.4	69.4	69.4	69.4	69.4	69.4
2	1	56.4	66.0	68.7	70.4	72.7	72.9	74.4	74.6	74.6	74.9	75.0	75.0	75.0	75.0	75.0	75.0
2	0.5	59.0	69.9	72.7	74.4	76.7	77.1	78.9	79.4	79.4	79.6	79.7	79.7	79.7	79.7	79.7	79.7
2	0.25	62.4	74.6	77.5	79.4	81.7	82.2	84.1	84.6	84.6	84.8	85.0	85.0	85.0	85.0	85.0	85.0
2	0.1	63.3	76.1	79.0	80.8	83.1	83.7	85.8	86.3	86.3	86.5	86.7	86.7	86.7	86.7	86.7	86.7
2	0.05	64.4	77.8	81.1	82.9	85.4	86.0	88.1	88.6	88.6	88.8	89.0	89.0	89.0	89.0	89.0	89.0
2	0.025	65.0	78.9	82.3	84.5	87.3	87.9	90.0	90.5	90.5	90.8	90.9	90.9	90.9	90.9	90.9	90.9
2	0.01	65.3	79.6	83.1	85.7	88.7	89.7	92.0	92.5	92.5	92.7	92.8	92.8	92.8	92.8	92.8	92.8
2	0.005	65.7	80.0	83.5	86.0	89.1	90.0	92.4	93.0	93.0	93.2	93.3	93.3	93.3	93.3	93.3	93.3
2	0.0025	65.7	80.0	83.5	86.0	89.2	90.2	92.7	93.7	93.7	94.1	94.2	94.2	94.2	94.2	94.2	94.2
2	0.001	65.7	80.0	83.5	86.3	89.4	90.4	93.0	93.9	93.9	94.4	94.5	94.5	94.5	94.5	94.5	94.5
2	0.0005	65.8	80.1	84.1	87.1	90.3	91.3	93.9	95.1	95.1	95.6	95.8	95.8	95.8	95.9	95.9	95.9
2	0.00025	65.8	80.2	84.2	87.3	90.4	91.4	94.5	95.9	95.9	96.5	96.7	96.7	96.8	96.8	96.8	96.8
2	0.0001	65.8	80.2	84.2	87.3	90.4	91.4	94.8	96.1	96.1	97.1	97.3	97.3	97.5	97.8	97.8	97.8
2	0.00005	65.8	80.2	84.2	87.3	90.4	91.4	94.8	96.2	96.2	97.5	98.1	98.1	98.4	98.8	98.8	98.8
2	0.000025	65.8	80.2	84.2	87.3	90.4	91.4	94.8	96.2	96.2	97.5	98.2	98.2	98.7	99.5	99.5	99.6
2	0.00001	65.8	80.2	84.2	87.3	90.4	91.4	94.8	96.2	96.2	97.5	98.2	98.2	98.7	99.5	99.5	99.8
2	0.000005	65.8	80.2	84.2	87.3	90.4	91.4	94.8	96.2	96.2	97.6	98.3	98.3	98.8	99.6	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 824



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AID WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 793 SEATTLE/TACOMA IAP, WA

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET		VISIBILITY - STATUTE MILES															
		210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
21000	21000	40.5	44.1	45.4	46.7	47.7	47.8	48.1	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
20000	20000	44.3	48.4	49.8	51.1	52.4	52.5	52.8	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4
18000	18000	44.6	48.7	51.1	51.3	52.7	52.8	53.0	53.5	53.5	53.6	53.6	53.6	53.6	53.6	53.6	53.6
16000	16000	45.2	49.4	50.7	52.1	53.4	53.5	53.7	54.2	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3
14000	14000	46.1	50.4	51.7	53.0	54.3	54.5	54.7	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3
12000	12000	47.6	52.3	53.9	55.2	56.5	56.6	56.9	57.4	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5
10000	10000	49.5	54.2	56.0	57.4	58.7	58.8	59.1	59.5	59.5	59.7	59.7	59.7	59.7	59.7	59.7	59.7
8000	8000	50.2	55.0	56.8	58.1	59.4	59.5	59.8	60.3	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4
6000	6000	52.2	57.0	58.8	60.1	61.5	61.6	61.8	62.3	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4
4000	4000	54.1	58.9	60.7	62.1	63.4	63.5	63.8	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4
2000	2000	56.5	61.5	63.3	64.6	65.9	66.1	66.3	66.8	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9
1000	1000	59.2	64.1	66.4	67.8	69.1	69.2	69.4	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0
500	500	61.2	66.8	69.4	71.1	72.5	72.6	72.8	73.3	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4
250	250	62.3	68.4	71.0	72.7	74.0	74.2	74.4	74.9	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0
100	100	64.5	71.3	74.0	75.8	77.2	77.3	77.5	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1
50	50	68.0	75.2	78.0	80.3	81.6	81.8	82.0	82.5	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6
25	25	71.4	79.5	82.7	85.0	86.5	86.6	86.8	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4
10	10	73.1	82.2	85.9	88.3	90.0	90.3	90.6	91.1	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3
5	5	73.7	82.9	86.7	89.1	90.8	91.2	91.4	91.9	91.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1
2	2	74.2	83.8	87.7	90.6	92.5	92.9	93.2	93.7	93.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0
1	1	74.9	84.8	88.6	91.7	93.7	94.3	94.8	95.4	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7
0	0	75.0	85.0	88.9	92.3	94.4	95.0	95.7	96.4	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6
0	0	75.1	85.1	89.0	92.6	94.8	95.5	96.1	96.9	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1
0	0	75.0	85.1	89.1	92.8	94.9	95.7	96.3	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3
0	0	75.0	85.1	89.1	92.8	94.9	95.7	96.4	97.2	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6
0	0	75.0	85.1	89.1	93.0	95.2	95.9	96.7	97.6	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3
0	0	75.0	85.1	89.1	93.0	95.3	96.0	97.1	98.1	98.2	99.0	99.0	99.0	99.0	99.0	99.0	99.0
0	0	75.0	85.1	89.3	93.2	95.5	96.4	97.7	98.8	98.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8
0	0	75.0	85.3	89.4	93.4	95.7	96.5	97.8	99.0	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	0	75.0	85.3	89.4	93.4	95.7	96.5	97.8	99.0	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	0	75.0	85.3	89.4	93.4	95.7	96.5	97.8	99.0	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 828



1  
2  
GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 793 SEATTLE/TACOMA IAP, WA

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1800-2000

CEILING FEET		VISIBILITY - STATUTE MILES															
		20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1	10000	43.3	46.7	47.9	48.5	48.8	48.8	49.3	49.6	49.6	49.7	49.7	49.7	49.7	49.7	49.7	49.7
2	8000	45.7	49.0	50.5	51.4	52.2	52.4	52.8	53.1	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2
3	6000	46.1	49.3	50.9	51.9	52.8	53.0	53.5	53.7	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8
4	4000	46.3	49.6	51.2	52.1	53.1	53.2	53.7	53.9	53.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1
5	3000	48.0	51.3	52.8	53.8	54.8	54.9	55.4	55.6	55.6	55.8	55.8	55.8	55.8	55.8	55.8	55.8
6	2000	49.0	52.2	53.8	54.9	55.9	56.0	56.5	56.7	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8
7	1500	51.3	55.0	56.6	57.7	58.7	58.8	59.3	59.5	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6
8	1000	52.6	56.6	58.2	59.3	60.2	60.4	60.8	61.1	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2
9	800	54.1	58.1	59.6	60.7	61.7	61.8	62.3	62.5	62.5	62.7	62.7	62.7	62.7	62.7	62.7	62.7
10	600	55.2	59.2	60.7	61.8	62.8	62.9	63.4	63.6	63.6	63.8	63.8	63.8	63.8	63.8	63.8	63.8
11	400	56.8	61.0	62.5	63.6	64.6	64.7	65.3	65.6	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7
12	300	59.3	63.5	65.2	66.5	67.5	67.6	68.2	68.5	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6
13	250	64.0	68.5	70.2	71.5	72.6	72.7	73.3	73.6	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7
14	200	65.2	69.9	71.6	73.0	74.1	74.2	74.8	75.0	75.0	75.2	75.2	75.2	75.2	75.2	75.2	75.2
15	150	68.2	73.3	75.2	76.5	77.7	77.8	78.4	78.7	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8
16	100	71.9	78.3	80.4	81.7	82.9	83.0	83.6	83.9	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0
17	75	74.5	81.9	84.0	85.3	86.5	86.7	87.3	87.6	87.6	87.9	87.9	87.9	87.9	87.9	87.9	87.9
18	50	76.5	84.2	86.4	88.2	89.6	89.9	90.5	90.9	90.9	91.2	91.2	91.2	91.2	91.2	91.2	91.2
19	25	77.1	85.0	87.2	89.0	90.3	90.7	91.3	91.6	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9
20	10	78.1	85.9	88.4	90.2	91.6	92.0	92.6	93.0	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2
21	5	79.3	87.3	89.8	91.6	93.2	93.7	94.5	94.9	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2
22	2	79.6	87.8	90.3	92.2	94.1	94.7	95.6	96.0	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2
23	1	79.6	87.8	90.4	92.4	94.4	95.0	96.0	96.4	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6
24	0.5	79.6	87.8	90.4	92.4	94.4	95.2	96.2	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8
25	0.25	79.6	87.8	90.4	92.4	94.4	95.6	97.1	97.5	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7
26	0.1	79.8	88.1	90.8	93.5	95.5	96.2	97.8	98.2	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5
27	0.05	80.0	88.4	91.0	93.7	95.9	96.6	98.2	98.8	98.8	99.2	99.2	99.2	99.2	99.2	99.2	99.2
28	0.025	80.0	88.4	91.2	93.8	96.0	96.7	98.3	99.0	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5
29	0.01	80.0	88.4	91.2	93.8	96.1	96.8	98.4	99.2	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6
30	0.005	80.0	88.4	91.2	93.8	96.1	96.8	98.4	99.3	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9
31	0.0025	80.0	88.4	91.2	93.8	96.1	96.8	98.4	99.3	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9
32	0.001	80.0	88.4	91.2	93.8	96.1	96.8	98.4	99.3	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 825



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 793 SEATTLE/TACOMA IAP, WA

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

210J-2300

		VISIBILITY - STAT. MILES															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1000	39.3	43.9	44.9	46.4	46.6	47.0	47.1	47.2	47.2	47.5	47.6	47.6	47.6	47.6	47.6	47.6
2	900	41.6	46.2	47.3	49.3	49.5	49.9	50.2	50.4	50.4	50.6	50.7	50.7	50.7	50.7	50.7	50.7
3	800	42.1	46.7	47.8	49.8	50.0	50.4	50.7	50.8	50.8	51.1	51.2	51.2	51.2	51.2	51.2	51.2
4	700	42.1	47.0	48.1	50.0	50.2	50.6	51.0	51.1	51.1	51.3	51.5	51.5	51.5	51.5	51.5	51.5
5	600	43.1	47.9	49.0	51.0	51.2	51.6	51.9	52.1	52.1	52.3	52.4	52.4	52.4	52.4	52.4	52.4
6	500	44.1	49.3	50.4	52.3	52.5	52.9	53.3	53.4	53.4	53.6	53.8	53.8	53.8	53.8	53.8	53.8
7	400	44.9	50.6	51.7	53.6	54.0	54.4	54.9	55.0	55.0	55.2	55.3	55.3	55.3	55.3	55.3	55.3
8	300	46.1	51.8	52.9	54.9	55.2	55.6	56.1	56.2	56.2	56.4	56.6	56.6	56.6	56.6	56.6	56.6
9	200	47.2	53.0	54.1	56.1	56.4	56.8	57.3	57.4	57.4	57.6	57.8	57.8	57.8	57.8	57.8	57.8
10	100	49.3	55.1	56.2	58.1	58.5	58.9	59.3	59.5	59.5	59.7	59.8	59.8	59.8	59.8	59.8	59.8
11	50	50.6	56.4	57.5	59.6	60.0	60.3	60.8	60.9	60.9	61.2	61.3	61.3	61.3	61.3	61.3	61.3
12	25	53.9	60.1	61.4	63.6	64.0	64.3	64.8	64.9	64.9	65.2	65.3	65.3	65.3	65.3	65.3	65.3
13	10	56.7	64.1	65.4	67.6	68.0	68.3	68.8	68.9	68.9	69.2	69.3	69.3	69.3	69.3	69.3	69.3
14	5	59.1	67.2	68.8	71.0	71.5	71.8	72.3	72.5	72.5	72.7	72.8	72.8	72.8	72.8	72.8	72.8
15	2	63.2	71.8	73.4	75.6	76.3	76.7	77.2	77.3	77.3	77.5	77.7	77.7	77.7	77.7	77.7	77.7
16	1	66.9	76.2	78.3	80.8	81.7	82.0	82.5	82.6	82.6	82.9	83.0	83.0	83.0	83.0	83.0	83.0
17	0.5	69.1	79.4	81.4	84.0	84.8	85.4	86.2	86.3	86.3	86.5	86.7	86.7	86.7	86.7	86.7	86.7
18	0.2	70.6	81.3	83.5	86.2	87.0	87.6	88.5	88.6	88.6	88.8	89.0	89.0	89.0	89.0	89.0	89.0
19	0.1	71.5	82.8	85.2	87.9	88.7	89.3	90.2	90.3	90.3	90.5	90.7	90.7	90.7	90.7	90.7	90.7
20	0.05	72.7	84.1	86.8	89.4	90.3	90.7	91.7	91.9	91.9	92.1	92.2	92.2	92.2	92.2	92.2	92.2
21	0.02	74.8	86.2	89.0	91.9	93.1	93.7	94.5	94.7	94.7	94.9	95.0	95.0	95.0	95.0	95.0	95.0
22	0.01	75.5	86.9	89.8	92.8	94.1	94.7	95.6	95.8	95.8	96.0	96.1	96.1	96.1	96.1	96.1	96.1
23	0.005	75.6	87.0	89.9	93.0	94.2	94.8	95.8	95.9	95.9	96.1	96.2	96.2	96.2	96.2	96.2	96.2
24	0.002	75.6	87.0	89.9	93.0	94.3	94.9	95.9	96.0	96.0	96.2	96.4	96.4	96.4	96.4	96.4	96.4
25	0.001	75.6	87.1	90.2	93.2	94.7	95.4	96.5	96.6	96.6	96.8	97.0	97.0	97.0	97.0	97.0	97.0
26	0.0005	75.7	87.3	90.5	93.7	95.3	96.0	97.2	97.3	97.3	97.6	97.7	97.7	97.7	97.7	97.7	97.7
27	0.0002	75.7	87.3	90.5	93.7	95.4	96.1	97.7	97.8	97.8	98.1	98.2	98.2	98.3	98.3	98.3	98.3
28	0.0001	75.7	87.3	90.5	93.7	95.4	96.1	97.8	97.9	97.9	98.3	98.4	98.4	98.5	98.5	98.8	98.8
29	0.00005	75.7	87.3	90.5	93.7	95.5	96.2	97.9	98.1	98.1	98.4	98.5	98.5	98.8	98.8	99.2	99.4
30	0.00002	75.7	87.3	90.5	93.7	95.5	96.2	97.9	98.1	98.1	98.4	98.5	98.5	98.9	99.0	99.5	99.9
31	0.00001	75.7	87.3	90.5	93.7	95.5	96.2	97.9	98.1	98.1	98.4	98.5	98.5	98.9	99.0	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 824

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
JAFETAC  
AFW WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 793

SEATTLE/TACOMA IAP, WA

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

ALL

		VISIBILITY (STATUTE MILES)															
		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5
1	0.0	29.4	34.9	36.6	38.0	38.9	39.1	39.8	40.0	40.0	40.3	40.5	40.5	40.7	40.7	40.9	41.0
2	0.1	31.9	37.7	39.5	41.1	42.1	42.4	43.2	43.5	43.5	43.8	44.0	44.0	44.3	44.3	44.5	44.6
3	0.2	32.7	38.0	39.7	41.4	42.5	42.7	43.5	43.8	43.8	44.1	44.3	44.3	44.6	44.6	44.8	45.0
4	0.3	32.4	38.3	40.1	41.7	42.8	43.0	43.8	44.1	44.1	44.5	44.7	44.7	44.9	45.0	45.1	45.3
5	0.4	33.5	39.3	41.1	42.8	43.9	44.1	44.9	45.2	45.2	45.6	45.7	45.7	46.0	46.0	46.2	46.4
6	0.5	34.7	40.9	42.8	44.4	45.5	45.8	46.6	46.9	46.9	47.2	47.4	47.4	47.7	47.7	47.9	48.1
7	0.6	35.4	42.3	44.3	46.0	47.1	47.4	48.2	48.5	48.5	48.8	49.0	49.0	49.3	49.3	49.5	49.7
8	0.7	37.7	43.5	45.5	47.1	48.3	48.5	49.4	49.7	49.7	50.0	50.2	50.2	50.5	50.5	50.7	50.9
9	0.8	38.1	44.7	46.7	48.4	49.5	49.8	50.6	50.9	50.9	51.3	51.5	51.5	51.8	51.8	52.0	52.2
10	0.9	39.7	46.3	48.3	50.0	51.2	51.4	52.3	52.6	52.6	52.9	53.1	53.1	53.4	53.4	53.6	53.8
11	1.0	41.6	48.4	50.4	52.2	53.3	53.6	54.5	54.7	54.8	55.1	55.3	55.3	55.6	55.6	55.8	56.0
12	1.1	44.6	51.8	54.0	55.8	57.0	57.2	58.1	58.4	58.4	58.8	59.0	59.0	59.2	59.3	59.4	59.7
13	1.2	47.4	55.2	57.5	59.4	60.6	60.9	61.8	62.0	62.1	62.4	62.6	62.6	62.9	62.9	63.1	63.3
14	1.3	49.4	57.6	60.0	61.9	63.1	63.4	64.3	64.6	64.6	64.9	65.1	65.1	65.4	65.4	65.6	65.9
15	1.4	51.9	60.7	63.3	65.3	66.6	66.9	67.8	68.1	68.1	68.5	68.7	68.7	69.0	69.0	69.2	69.4
16	1.5	55.5	65.2	68.0	70.1	71.6	71.9	72.8	73.0	73.1	73.4	73.6	73.6	73.9	73.9	74.1	74.3
17	1.6	57.8	68.3	71.3	73.5	75.0	75.3	76.3	76.6	76.7	77.0	77.2	77.2	77.5	77.6	77.7	78.0
18	1.7	60.0	71.1	74.3	76.8	78.4	78.8	79.9	80.2	80.3	80.7	80.9	80.9	81.2	81.2	81.4	81.6
19	1.8	60.9	72.4	75.7	78.2	79.8	80.2	81.4	81.7	81.7	82.2	82.4	82.4	82.7	82.7	82.9	83.1
20	1.9	62.3	74.1	77.5	80.1	81.8	82.2	83.4	83.7	83.8	84.3	84.5	84.5	84.8	84.8	85.0	85.2
21	2.0	64.1	76.3	79.8	82.6	84.4	84.9	86.2	86.6	86.7	87.2	87.4	87.4	87.7	87.7	87.9	88.1
22	2.1	64.9	77.4	80.9	83.9	85.8	86.4	87.8	88.2	88.3	88.9	89.1	89.1	89.4	89.4	89.6	89.8
23	2.2	65.1	77.5	81.1	84.2	86.1	86.8	88.2	88.6	88.7	89.3	89.5	89.5	89.8	89.8	90.0	90.3
24	2.3	65.2	77.8	81.4	84.5	86.6	87.3	88.8	89.2	89.3	89.9	90.1	90.1	90.4	90.4	90.6	90.9
25	2.4	65.3	78.1	81.7	85.0	87.1	87.8	89.4	89.9	90.0	90.6	90.8	90.8	91.1	91.1	91.3	91.6
26	2.5	65.4	78.3	82.2	85.7	87.8	88.6	90.3	90.8	90.9	91.6	91.8	91.8	92.1	92.2	92.3	92.6
27	2.6	65.5	78.5	82.4	86.0	88.2	89.0	90.8	91.4	91.5	92.4	92.6	92.6	93.0	93.0	93.2	93.4
28	2.7	65.5	78.6	82.6	86.3	88.6	89.4	91.4	92.2	92.3	93.3	93.6	93.6	94.0	94.1	94.3	94.5
29	2.8	65.5	78.6	82.7	86.4	88.9	89.7	91.9	92.7	92.8	94.1	94.5	94.5	95.0	95.1	95.4	95.7
30	2.9	65.5	78.6	82.7	86.4	89.0	89.8	92.2	93.0	93.2	94.7	95.1	95.1	95.9	96.0	96.4	97.7
31	3.0	65.5	78.6	82.7	86.4	89.0	89.8	92.2	93.0	93.2	94.8	95.2	95.3	96.2	96.3	97.4	99.5
32	3.1	65.5	78.6	82.7	86.4	89.0	89.8	92.2	93.0	93.2	94.8	95.2	95.3	96.2	96.4	97.4	100.0

TOTAL NUMBER OF OBSERVATIONS 6575



2

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
ATMOSPHERIC WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

77937 SEATTLE/TACOMA IAP, WA

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0000-0200

CEILING FEET	VISIBILITY, STATUTE MILES															
	20	20	21	24	25	22	22	21	21	24	24	24	24	25	25	25
NO FOG	19.7	21.5	22.3	23.7	23.9	24.0	24.3	24.3	24.3	24.6	24.6	24.6	24.6	24.6	25.2	25.4
2-2000	21.8	23.5	24.3	25.7	26.0	26.1	26.3	26.3	26.3	26.6	26.6	26.6	26.6	26.6	27.4	27.9
2-1800	21.8	23.5	24.3	25.7	26.0	26.1	26.3	26.3	26.3	26.6	26.6	26.6	26.6	26.6	27.4	27.9
2-1600	21.8	23.5	24.3	25.7	26.0	26.1	26.3	26.3	26.3	26.6	26.6	26.6	26.6	26.6	27.4	27.9
2-1400	22.8	24.6	25.3	26.7	27.0	27.1	27.4	27.4	27.4	27.6	27.6	27.6	27.6	27.6	28.4	28.9
2-1200	23.9	25.7	26.5	27.9	28.1	28.2	28.5	28.5	28.5	28.8	28.8	28.8	28.8	28.8	29.5	30.0
2-1000	24.8	27.2	28.0	29.4	29.6	29.8	30.0	30.0	30.0	30.3	30.3	30.3	30.3	30.3	31.0	31.6
2-900	26.5	28.9	29.6	31.0	31.3	31.4	31.7	31.7	31.7	31.9	31.9	31.9	31.9	31.9	32.7	33.2
2-800	27.9	30.3	31.0	32.4	32.7	32.8	33.1	33.1	33.1	33.3	33.3	33.3	33.3	33.3	34.1	34.6
2-700	30.5	33.2	34.0	35.4	35.6	35.8	36.0	36.0	36.0	36.3	36.3	36.3	36.3	36.3	37.0	37.5
2-600	32.2	35.0	35.8	37.3	37.5	37.7	37.9	37.9	37.9	38.2	38.2	38.2	38.2	38.2	38.9	39.4
2-500	34.2	37.2	37.9	39.7	39.9	40.1	40.3	40.3	40.3	40.7	40.7	40.7	40.7	40.7	41.5	42.0
2-4500	38.0	41.6	42.5	44.4	44.7	44.8	45.0	45.0	45.0	45.4	45.4	45.4	45.4	45.4	46.2	46.7
2-400	40.7	44.4	45.3	47.2	47.5	47.6	47.8	47.8	47.8	48.2	48.2	48.2	48.2	48.2	49.0	49.5
2-3500	43.5	48.2	49.1	51.1	51.4	51.5	51.8	51.8	51.8	52.3	52.3	52.3	52.3	52.3	53.1	53.6
2-3000	48.3	54.1	55.3	57.6	58.0	58.1	58.4	58.4	58.4	58.9	58.9	58.9	58.9	58.9	59.7	60.2
2-2500	52.8	59.4	61.2	63.7	64.2	64.5	64.8	64.8	64.8	65.3	65.3	65.3	65.3	65.3	66.0	66.5
2-2000	56.4	64.1	66.3	69.5	70.1	70.4	70.6	70.6	70.6	71.1	71.1	71.1	71.1	71.1	71.9	72.4
2-1800	57.8	65.8	67.9	71.6	72.3	72.8	73.0	73.0	73.0	73.7	73.7	73.7	73.7	73.7	74.4	74.9
2-1600	59.4	69.0	71.2	75.2	76.0	76.5	76.8	76.8	76.8	77.5	77.5	77.5	77.5	77.5	78.2	78.8
2-1400	61.7	72.5	74.9	79.3	80.2	80.7	81.0	81.0	81.0	82.2	82.2	82.2	82.2	82.2	83.0	83.5
2-1200	63.2	74.6	77.0	81.6	82.4	83.0	83.6	83.6	83.6	85.1	85.1	85.1	85.1	85.1	85.9	86.4
2-1000	63.6	75.1	77.5	82.2	83.1	83.6	84.2	84.2	84.2	85.8	85.8	85.8	85.8	85.8	86.5	87.0
2-900	63.7	75.3	78.0	83.0	83.8	84.4	85.2	85.2	85.2	86.8	86.8	86.8	86.8	86.8	87.5	88.0
2-800	63.9	75.8	78.6	83.6	84.5	85.0	86.1	86.1	86.1	87.7	87.7	87.7	87.7	87.7	88.4	88.9
2-700	64.5	76.8	79.8	84.7	85.6	86.1	87.4	87.4	87.4	88.9	88.9	88.9	88.9	88.9	89.7	90.2
2-600	64.6	77.1	80.0	85.1	86.3	86.8	88.0	88.0	88.0	89.6	89.6	89.6	89.6	89.6	90.6	91.1
2-500	64.6	77.2	80.2	85.6	86.9	87.4	88.8	88.9	88.9	90.5	90.5	90.5	90.5	90.5	91.7	92.2
2-400	64.6	77.4	80.3	85.8	87.0	87.5	89.3	89.7	89.7	91.7	91.7	91.7	91.7	92.0	93.0	93.5
2-300	64.6	77.4	80.3	85.8	87.2	87.7	89.6	90.1	90.1	92.5	92.5	92.5	93.1	93.1	94.4	95.3
2-200	64.6	77.4	80.3	85.8	87.2	87.7	89.6	90.1	90.1	92.5	92.5	92.5	93.4	93.4	95.8	96.7
2-100	64.6	77.4	80.3	85.8	87.2	87.7	89.6	90.1	90.1	92.5	92.5	92.5	93.4	93.4	96.2	100.0
2-0	64.6	77.4	80.3	85.8	87.2	87.7	89.6	90.1	90.1	92.5	92.5	92.5	93.4	93.4	96.2	100.0

TOTAL NUMBER OF OBSERVATIONS 786

USAF ETAC 0-14-5 (DL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7-783

SEATTLE/TACOMA IAP, WA

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0300-0500

	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
18.1	20.5	21.9	21.6	22.3	22.3	22.6	22.6	22.6	23.1	23.1	23.1	23.3	23.3	23.9	24.2		
20.3	22.6	22.9	23.8	24.4	24.4	24.8	24.8	24.8	25.4	25.4	25.4	25.5	25.5	26.2	26.5		
20.3	22.6	22.9	23.8	24.4	24.4	24.8	24.8	24.8	25.4	25.4	25.4	25.5	25.5	26.2	26.5		
20.3	22.6	22.9	23.8	24.4	24.4	24.8	24.8	24.8	25.4	25.4	25.4	25.5	25.5	26.2	26.5		
21.1	23.5	23.8	24.7	25.3	25.3	25.7	25.8	25.8	26.4	26.4	26.4	26.5	26.5	27.2	27.5		
22.6	25.0	25.3	26.2	26.8	26.8	27.2	27.3	27.3	27.9	27.9	27.9	28.1	28.1	28.7	29.1		
23.8	26.8	27.0	27.9	28.6	28.6	28.9	29.1	29.1	29.7	29.7	29.7	29.8	29.8	30.4	30.8		
25.0	28.1	28.3	29.2	29.8	29.8	30.2	30.3	30.3	30.9	30.9	30.9	31.1	31.1	31.7	32.1		
25.7	28.7	28.9	29.8	30.4	30.4	30.8	30.9	30.9	31.6	31.6	31.6	31.8	31.8	32.5	33.0		
27.2	30.2	30.4	31.4	32.1	32.1	32.5	32.6	32.6	33.2	33.2	33.2	33.5	33.5	34.1	34.6		
29.9	33.0	33.2	34.2	34.8	34.8	35.2	35.3	35.3	36.0	36.0	36.0	36.2	36.2	36.9	37.4		
34.1	37.1	37.4	38.4	39.0	39.0	39.4	39.5	39.5	40.1	40.1	40.1	40.6	40.6	41.3	41.8		
37.7	41.0	41.4	42.4	43.0	43.0	43.4	43.5	43.5	44.2	44.2	44.2	44.7	44.7	45.3	45.8		
40.6	43.9	44.3	45.3	45.9	45.9	46.3	46.4	46.4	47.0	47.0	47.0	47.5	47.5	48.2	48.7		
43.3	47.8	48.3	49.7	50.3	50.3	50.7	50.8	50.8	51.4	51.4	51.4	51.9	51.9	52.6	53.1		
48.3	54.5	55.1	56.7	57.5	57.5	58.0	58.1	58.1	58.7	58.7	58.7	59.2	59.2	59.9	60.4		
52.1	59.5	60.1	61.9	62.9	62.9	63.4	63.5	63.5	64.3	64.3	64.3	64.8	64.8	65.4	65.9		
55.9	64.7	65.9	67.9	68.9	68.9	69.6	69.7	69.7	70.4	70.4	70.4	70.9	70.9	71.6	72.1		
57.4	66.4	67.9	69.9	70.9	70.9	71.7	71.8	71.8	72.6	72.6	72.6	73.1	73.1	73.7	74.2		
60.3	69.9	71.9	74.1	75.3	75.3	76.1	76.2	76.2	77.0	77.0	77.0	77.5	77.5	78.2	78.7		
61.4	71.7	74.1	76.6	78.0	78.0	79.1	79.2	79.2	80.1	80.1	80.1	80.6	80.6	81.4	81.9		
62.3	72.6	75.3	78.1	79.5	79.5	80.6	80.9	80.9	81.8	81.8	81.8	82.4	82.4	83.1	83.6		
62.6	73.3	76.1	79.0	80.4	80.4	81.5	81.8	81.8	82.6	82.6	82.6	83.3	83.3	84.0	84.5		
62.8	73.5	76.4	79.2	80.6	80.6	81.9	82.1	82.1	83.0	83.0	83.0	83.6	83.6	84.4	84.9		
63.0	74.0	76.9	79.7	81.1	81.1	82.5	82.8	82.8	83.6	83.6	83.6	84.3	84.3	85.0	85.5		
63.3	74.2	77.1	80.1	81.5	81.5	83.0	83.3	83.3	84.3	84.3	84.3	85.2	85.2	85.9	86.4		
63.6	75.0	78.0	81.0	82.8	82.8	84.5	84.8	84.8	86.0	86.0	86.0	86.9	86.9	87.7	88.2		
63.6	75.1	78.1	81.1	83.3	83.3	85.3	85.5	85.5	86.8	86.8	86.8	87.8	87.8	88.6	89.1		
63.8	75.3	78.5	81.5	83.9	83.9	86.0	86.3	86.3	87.8	87.8	87.8	88.8	88.8	89.6	90.1		
63.8	75.3	78.5	81.6	84.2	84.3	86.7	86.9	86.9	89.1	89.4	89.4	90.8	90.8	91.7	92.5		
63.8	75.3	78.5	81.6	84.2	84.3	86.8	87.2	87.2	89.7	90.1	90.1	91.7	91.7	93.5	97.9		
63.8	75.3	78.5	81.6	84.2	84.3	86.8	87.2	87.2	89.7	90.1	90.1	91.7	91.7	94.0	100.0		

TOTAL NUMBER OF OBSERVATIONS 795



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7 743

SEATTLE/TACOMA IAP, WA

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800

		VISIBILITY - STATUTE MILES															
		20	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1	EDSK	17.7	19.2	19.6	20.3	20.3	20.5	20.9	21.0	21.0	21.1	21.1	22.0	22.0	22.8	23.8	
2	2000	19.1	21.5	21.9	22.6	22.6	22.9	23.3	23.4	23.4	23.5	23.5	24.4	24.4	25.2	26.3	
3	1800	19.4	21.8	22.1	22.9	22.9	23.1	23.5	23.6	23.6	23.8	23.8	24.7	24.7	25.4	26.5	
4	1600	19.9	22.3	22.6	23.4	23.4	23.6	24.0	24.2	24.2	24.3	24.3	25.2	25.2	25.9	27.0	
5	1400	21.3	23.8	24.3	25.0	25.0	25.3	25.7	25.8	25.8	25.9	25.9	26.8	26.8	27.5	28.7	
6	1200	22.4	24.9	25.4	26.2	26.2	26.4	26.8	26.9	26.9	27.0	27.0	27.9	27.9	28.7	29.8	
7	1000	23.4	25.9	26.4	27.2	27.2	27.4	27.8	27.9	27.9	27.9	28.1	28.1	28.9	28.9	29.7	30.8
8	900	24.3	26.8	27.3	28.1	28.1	28.3	28.7	28.8	28.8	28.8	28.9	28.9	29.8	29.8	30.6	31.7
9	800	26.2	28.8	29.3	30.2	30.2	30.4	30.8	30.9	30.9	30.9	31.1	31.1	31.9	31.9	32.8	34.0
10	700	27.4	30.1	30.6	31.6	31.6	31.8	32.2	32.3	32.3	32.3	32.5	32.5	33.3	33.3	34.2	35.3
11	600	29.2	31.9	32.5	33.5	33.7	34.0	34.3	34.5	34.5	34.5	34.6	34.6	35.5	35.5	36.4	37.5
12	500	33.6	36.6	37.2	38.4	38.6	38.9	39.4	39.5	39.5	39.5	39.6	39.6	40.5	40.5	41.4	42.5
13	450	36.5	39.5	40.1	41.3	41.5	41.8	42.3	42.4	42.4	42.4	42.5	42.5	43.4	43.4	44.3	45.4
14	400	39.3	42.1	42.8	43.9	44.2	44.4	44.9	45.0	45.0	45.0	45.2	45.2	46.0	46.0	46.9	48.1
15	350	42.8	46.8	47.7	48.9	49.3	49.6	50.1	50.2	50.2	50.2	50.3	50.3	51.2	51.2	52.1	53.2
16	300	47.3	52.8	53.7	55.2	55.7	56.0	56.6	56.7	56.7	56.7	56.9	56.9	57.7	57.7	58.6	59.7
17	250	51.3	58.5	59.4	60.9	61.5	61.8	62.8	62.9	62.9	63.0	63.1	63.1	64.0	64.0	64.9	66.0
18	200	55.6	63.9	65.2	66.9	67.8	68.1	69.1	69.3	69.3	69.4	69.6	69.6	70.4	70.4	71.3	72.5
19	1800	56.9	65.3	66.7	68.8	69.8	70.1	71.1	71.3	71.3	71.4	71.6	71.6	72.5	72.5	73.3	74.5
20	1500	58.4	67.4	69.3	71.7	72.8	73.1	74.2	74.5	74.5	74.6	74.7	74.7	75.6	75.6	76.5	77.6
21	1200	60.1	70.2	72.3	75.0	76.1	76.5	77.9	78.1	78.1	78.2	78.4	78.4	79.2	79.2	80.1	81.3
22	1000	60.8	71.1	73.2	75.8	77.0	77.5	79.0	79.4	79.4	79.5	79.6	79.6	80.5	80.5	81.4	82.5
23	900	60.8	71.4	73.6	76.4	77.5	78.0	79.7	80.3	80.3	80.4	80.5	80.5	81.4	81.4	82.3	83.4
24	800	60.9	72.1	74.5	77.4	78.5	79.0	80.9	81.4	81.4	81.8	81.9	81.9	82.8	82.8	83.6	84.8
25	700	61.1	72.6	75.2	78.1	79.2	79.7	81.6	82.1	82.1	82.8	82.9	82.9	83.8	83.8	84.7	85.8
26	600	61.1	73.0	75.6	78.6	79.9	80.4	82.3	82.8	82.8	83.4	83.5	83.5	84.5	84.5	85.4	86.5
27	500	61.4	73.3	76.0	79.0	80.4	80.9	82.9	83.4	83.4	84.0	84.2	84.2	85.2	85.2	86.0	87.2
28	400	61.4	73.6	76.2	79.2	80.8	81.3	83.4	84.2	84.2	84.9	85.4	85.4	86.4	86.4	87.3	88.4
29	300	61.4	73.6	76.2	79.4	81.0	81.5	84.0	84.9	84.9	85.7	86.2	86.2	87.5	87.5	88.4	89.6
30	200	61.4	73.6	76.4	79.5	81.1	81.8	84.5	85.4	85.4	86.9	87.9	87.9	89.8	89.9	91.1	93.0
31	100	61.5	73.7	76.5	79.6	81.3	81.9	84.7	85.5	85.5	87.3	88.3	88.3	90.6	90.7	93.1	98.0
32	0	61.5	73.7	76.5	79.6	81.3	81.9	84.7	85.5	85.5	87.3	88.3	88.3	90.6	90.7	93.5	100.0

TOTAL NUMBER OF OBSERVATIONS 795



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

77937 SEATTLE/TACOMA IAP, WA

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	21.4	22.8	23.2	23.6	23.9	24.1	24.2	24.3	24.4	24.9	24.9	24.9	25.1	25.1	25.1	25.9
≥ 25000	24.6	26.2	26.6	27.1	27.7	27.8	28.0	28.2	28.3	28.8	28.8	28.8	29.1	29.1	29.1	30.2
≥ 18000	24.9	26.6	27.1	27.6	28.2	28.3	28.5	28.7	28.8	29.3	29.3	29.3	29.6	29.6	29.6	30.7
≥ 15000	25.7	27.3	27.8	28.3	29.0	29.1	29.2	29.5	29.6	30.1	30.1	30.1	30.4	30.4	30.4	31.5
≥ 14000	27.6	29.2	30.0	30.5	31.1	31.2	31.4	31.6	31.7	32.2	32.2	32.2	32.5	32.5	32.5	33.6
≥ 12000	29.3	31.0	31.9	32.4	33.0	33.1	33.2	33.5	33.6	34.1	34.1	34.1	34.4	34.4	34.4	35.5
≥ 10000	30.9	32.5	33.4	33.9	34.6	34.8	34.9	35.1	35.3	35.8	35.8	35.8	36.0	36.0	36.0	37.2
≥ 9000	31.7	33.5	34.4	34.9	35.6	35.8	35.9	36.1	36.3	36.8	36.8	36.8	37.0	37.0	37.0	38.2
≥ 8000	32.1	33.9	34.8	35.3	36.0	36.1	36.3	36.5	36.6	37.2	37.2	37.2	37.4	37.4	37.4	38.5
≥ 7000	33.2	35.0	35.9	36.4	37.2	37.3	37.4	37.7	37.8	38.3	38.3	38.3	38.5	38.5	38.5	39.7
≥ 5000	34.9	36.8	37.7	38.2	38.9	39.0	39.2	39.4	39.5	40.1	40.1	40.1	40.3	40.3	40.3	41.4
≥ 4500	39.0	41.4	42.3	42.8	43.6	43.7	43.8	44.1	44.2	44.7	44.7	44.7	45.0	45.0	45.0	46.1
≥ 4000	40.9	43.6	44.7	45.2	46.2	46.6	46.7	47.0	47.1	47.7	47.7	47.7	48.0	48.0	48.0	49.1
≥ 3500	43.7	46.5	47.6	48.1	49.1	49.5	49.6	49.9	50.0	50.6	50.6	50.6	50.9	50.9	50.9	52.0
≥ 3000	47.9	51.8	52.9	53.7	54.8	55.2	55.3	55.5	55.7	56.3	56.3	56.3	56.5	56.5	56.5	57.7
≥ 2500	52.5	58.2	59.3	60.3	61.7	62.1	62.3	62.6	62.7	63.6	63.6	63.6	63.9	63.9	63.9	65.0
≥ 2000	56.7	63.1	64.4	65.4	66.9	67.3	67.5	67.9	68.0	68.9	68.9	68.9	69.1	69.1	69.1	70.3
≥ 1800	59.8	67.6	69.1	70.2	71.8	72.2	72.5	72.9	73.0	73.9	73.9	73.9	74.2	74.2	74.2	75.3
≥ 1500	61.1	69.1	70.8	71.8	73.4	73.8	74.3	74.8	74.9	75.8	75.8	75.8	76.1	76.1	76.1	77.2
≥ 1200	63.0	71.7	73.3	74.3	76.6	77.0	77.5	78.0	78.1	79.0	79.0	79.0	79.2	79.2	79.2	80.4
≥ 1000	64.7	73.7	75.7	76.7	79.0	79.5	80.4	80.9	81.0	82.0	82.0	82.0	82.2	82.2	82.2	83.4
≥ 900	64.7	74.6	76.8	78.1	80.4	80.9	81.9	82.4	82.5	83.6	83.6	83.6	83.9	83.9	83.9	85.0
≥ 800	65.0	75.2	77.5	78.8	81.1	81.6	82.7	83.2	83.4	84.5	84.5	84.5	84.8	84.8	84.8	85.9
≥ 700	65.7	75.4	77.7	79.2	81.6	82.1	83.4	84.0	84.1	85.3	85.3	85.3	85.5	85.5	85.5	86.6
≥ 600	65.0	76.1	78.3	79.8	82.2	82.7	84.0	84.6	84.8	85.9	85.9	85.9	86.1	86.1	86.1	87.3
≥ 500	65.0	76.6	79.0	80.5	83.0	83.5	84.9	85.5	85.6	86.8	86.8	86.8	87.0	87.0	87.0	88.2
≥ 400	65.0	76.8	79.0	80.5	83.0	83.5	85.1	85.9	86.0	87.4	87.4	87.4	87.7	87.7	87.7	88.8
≥ 300	65.0	76.7	79.1	80.6	83.2	84.3	86.4	87.3	87.4	89.0	89.0	89.0	89.3	89.3	89.3	90.4
≥ 200	65.0	76.7	79.1	80.6	83.2	84.3	86.8	87.9	88.0	90.2	90.3	90.4	90.7	90.7	90.7	92.7
≥ 100	65.0	76.7	79.1	80.6	83.2	84.3	87.2	88.4	88.5	90.7	91.2	91.3	91.9	91.9	91.9	96.1
≥ 0	65.0	76.7	79.1	80.6	83.2	84.3	87.2	88.4	88.5	90.7	91.3	91.4	92.1	92.1	94.0	99.5
≥ 0	65.0	76.7	79.1	80.6	83.2	84.3	87.2	88.4	88.5	90.7	91.3	91.4	92.1	92.1	94.0	100.0

TOTAL NUMBER OF OBSERVATIONS 794



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

7793 SEATTLE/TACOMA IAP, WA

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1200-1400

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	100
> 10000	21.9	23.6	24.2	24.7	25.1	25.4	25.6	25.9	25.9	26.2	26.2	26.2	26.7	26.7	26.7	26.7
≥ 20000	26.1	28.1	29.0	29.7	30.1	30.7	30.9	31.2	31.2	31.5	31.5	31.5	32.0	32.0	32.0	32.0
≥ 18000	26.6	28.6	29.5	30.2	30.6	31.2	31.4	31.7	31.7	32.0	32.0	32.0	32.5	32.5	32.5	32.5
≥ 16000	27.6	29.6	30.5	31.2	31.6	32.2	32.4	32.7	32.7	33.0	33.0	33.0	33.5	33.5	33.5	33.5
≥ 14000	29.6	32.1	33.0	33.8	34.1	34.8	34.9	35.3	35.3	35.5	35.5	35.5	36.0	36.0	36.0	36.0
≥ 12000	32.6	35.4	36.6	37.4	37.8	38.4	38.5	38.9	38.9	39.2	39.2	39.2	39.7	39.7	39.7	39.7
≥ 10000	34.6	37.7	38.9	39.7	40.1	40.7	40.8	41.2	41.2	41.4	41.4	41.4	41.9	41.9	41.9	41.9
≥ 9000	35.8	38.9	40.2	40.9	41.3	41.9	42.1	42.4	42.4	42.7	42.7	42.7	43.2	43.2	43.2	43.2
≥ 8000	36.1	39.3	40.7	41.4	41.8	42.4	42.6	42.9	42.9	43.2	43.2	43.2	43.7	43.7	43.7	43.7
≥ 7000	37.5	40.8	42.2	42.9	43.3	44.0	44.1	44.5	44.5	44.7	44.7	44.7	45.2	45.2	45.2	45.2
≥ 6000	38.5	41.8	43.2	44.0	44.3	45.0	45.1	45.5	45.5	45.7	45.7	45.7	46.2	46.2	46.2	46.2
≥ 5000	40.7	44.3	45.8	46.6	47.0	47.6	47.7	48.1	48.1	48.4	48.4	48.4	48.9	48.9	48.9	48.9
> 4500	43.2	47.2	48.7	49.7	50.3	50.9	51.0	51.4	51.4	51.6	51.6	51.6	52.1	52.1	52.1	52.1
≥ 4000	46.5	50.6	52.1	53.1	53.7	54.3	54.4	54.8	54.8	55.0	55.0	55.0	55.5	55.5	55.5	55.5
≥ 3500	48.7	53.7	55.4	56.4	56.9	57.6	57.7	58.1	58.1	58.3	58.3	58.3	58.8	58.8	58.8	58.8
≥ 3000	52.3	58.3	60.1	61.2	61.8	62.5	62.7	63.1	63.1	63.5	63.5	63.5	64.0	64.0	64.0	64.0
≥ 2500	57.2	64.2	66.1	67.4	68.1	68.8	69.0	69.4	69.4	69.8	69.8	69.8	70.3	70.3	70.3	70.3
≥ 2000	61.7	70.8	72.9	74.7	75.7	76.4	76.7	77.1	77.1	77.5	77.5	77.5	78.0	78.0	78.0	78.0
≥ 1800	63.7	73.4	75.7	77.5	78.5	79.2	79.5	80.0	80.0	80.4	80.4	80.4	80.9	80.9	80.9	80.9
≥ 1500	65.7	76.1	78.3	80.4	81.7	82.5	82.9	83.5	83.5	83.9	83.9	83.9	84.4	84.4	84.4	84.4
≥ 1200	67.3	79.3	82.1	84.3	85.6	86.4	86.9	87.5	87.5	87.9	87.9	87.9	88.4	88.4	88.4	88.4
≥ 1000	67.4	80.4	83.5	85.8	87.3	88.0	88.5	89.2	89.2	89.5	89.5	89.5	90.1	90.1	90.1	90.1
≥ 900	67.5	80.6	83.8	86.0	87.5	88.5	89.2	89.8	89.8	90.3	90.3	90.3	90.8	90.8	90.8	90.8
≥ 800	67.6	81.0	84.3	86.5	88.2	89.2	89.8	90.6	90.6	91.1	91.1	91.1	91.6	91.6	91.6	91.6
≥ 700	67.8	81.2	84.5	86.8	88.5	89.5	90.7	91.6	91.6	92.1	92.1	92.1	92.6	92.6	92.6	92.6
≥ 600	67.8	81.6	85.0	87.4	89.3	90.4	92.1	93.2	93.2	93.8	93.8	93.8	94.3	94.3	94.3	94.3
≥ 500	67.8	81.6	85.0	87.4	89.3	90.4	92.3	94.0	94.0	94.6	94.6	94.6	95.3	95.3	95.3	95.3
≥ 400	67.9	81.7	85.1	87.5	89.4	90.6	92.4	94.5	94.5	95.6	95.6	95.6	96.5	96.5	96.7	96.7
≥ 300	67.9	81.7	85.3	87.7	89.7	90.8	92.7	94.8	95.1	96.6	97.1	97.1	97.7	97.7	98.0	98.0
≥ 200	67.9	81.7	85.3	87.7	89.7	90.8	92.7	94.8	95.1	97.0	97.5	97.5	98.6	98.6	99.1	99.5
≥ 100	67.9	81.7	85.3	87.7	89.7	90.8	92.7	94.8	95.1	97.0	97.5	97.5	98.6	98.6	99.1	99.9
≥ 0	67.9	81.7	85.3	87.7	89.7	90.8	92.7	94.8	95.1	97.0	97.5	97.5	98.6	98.6	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS

794



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7793 SEATTLE/TACOMA IAP, WA

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	10.0
2 10000	22.1	24.4	25.1	26.6	27.2	27.3	27.7	27.9	27.9	27.9	28.1	28.1	28.1	28.1	28.1	28.1
2 7000	24.8	27.4	28.2	29.7	30.3	30.5	30.8	31.1	31.1	31.1	31.2	31.2	31.2	31.2	31.2	31.2
2 5000	25.1	27.7	28.4	29.9	30.6	30.7	31.1	31.3	31.3	31.3	31.5	31.5	31.5	31.5	31.5	31.5
2 4000	25.9	28.6	29.3	30.8	31.5	31.6	32.0	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3
2 3000	28.4	31.3	32.1	33.6	34.3	34.5	35.0	35.2	35.2	35.3	35.5	35.5	35.5	35.5	35.5	35.5
2 2000	32.3	35.3	36.1	37.6	38.3	38.5	39.0	39.2	39.2	39.3	39.5	39.5	39.5	39.5	39.5	39.5
2 1000	34.2	37.6	38.5	40.0	40.7	40.9	41.4	41.6	41.6	41.7	41.9	41.9	41.9	41.9	41.9	41.9
2 900	35.2	38.7	39.6	41.1	41.9	42.0	42.5	42.7	42.7	42.9	43.0	43.0	43.0	43.0	43.0	43.0
2 800	36.0	39.6	40.6	42.1	42.9	43.0	43.5	43.7	43.7	43.9	44.0	44.0	44.0	44.0	44.0	44.0
2 700	37.7	41.7	42.7	44.2	45.0	45.1	45.6	45.9	45.9	46.0	46.1	46.1	46.1	46.1	46.1	46.1
2 600	39.3	43.4	44.4	45.9	46.6	46.7	47.2	47.5	47.5	47.6	47.7	47.7	47.7	47.7	47.7	47.7
2 500	42.4	46.5	47.5	49.0	49.7	49.9	50.4	50.6	50.6	50.8	50.9	50.9	50.9	50.9	50.9	50.9
2 400	46.1	50.1	51.3	52.9	53.6	53.8	54.3	54.5	54.5	54.6	54.8	54.8	54.8	54.8	54.8	54.8
2 300	48.9	53.6	54.9	56.6	57.4	57.5	58.0	58.3	58.3	58.4	58.5	58.5	58.5	58.5	58.5	58.5
2 2500	54.1	60.2	61.5	63.3	64.0	64.2	64.7	64.9	64.9	65.0	65.2	65.2	65.2	65.2	65.2	65.2
2 2000	58.0	64.8	66.2	68.3	69.2	69.3	69.9	70.2	70.2	70.3	70.4	70.4	70.4	70.4	70.4	70.4
2 1800	62.2	70.6	72.1	74.3	75.2	75.3	75.9	76.2	76.2	76.3	76.4	76.4	76.4	76.4	76.4	76.4
2 1600	66.3	75.7	77.7	80.5	81.3	81.6	82.2	82.5	82.5	82.6	82.7	82.7	82.7	82.7	82.7	82.7
2 1400	66.8	76.6	78.8	81.7	82.7	83.0	83.6	83.8	83.8	84.0	84.1	84.1	84.1	84.1	84.1	84.1
2 1200	68.8	79.1	81.3	84.2	85.6	85.8	86.5	86.7	86.7	87.0	87.1	87.1	87.1	87.1	87.1	87.1
2 1000	70.2	81.7	84.1	87.1	88.5	88.8	89.5	89.7	89.7	90.0	90.1	90.1	90.1	90.1	90.1	90.1
2 900	70.4	82.7	85.5	88.5	89.8	90.6	91.4	91.6	91.6	91.9	92.0	92.0	92.0	92.0	92.0	92.0
2 800	70.6	83.0	85.7	88.7	90.1	90.9	91.6	92.1	92.1	92.4	92.5	92.5	92.5	92.5	92.5	92.5
2 700	70.6	83.1	86.0	89.1	90.6	91.4	92.1	93.0	93.0	93.4	93.5	93.5	93.5	93.5	93.5	93.5
2 600	70.9	83.5	86.3	89.7	91.2	92.0	92.7	93.6	93.6	94.0	94.1	94.1	94.1	94.1	94.1	94.1
2 500	71.1	83.6	86.6	90.2	91.7	92.5	93.2	94.1	94.1	94.6	94.7	94.7	94.7	94.7	94.7	94.7
2 400	71.1	83.6	86.6	90.2	91.9	92.6	93.4	94.4	94.4	95.0	95.1	95.1	95.1	95.1	95.1	95.1
2 300	71.2	83.7	87.0	90.9	92.5	93.7	94.5	95.6	95.6	96.5	96.6	96.6	96.6	96.6	96.6	96.6
2 200	71.2	83.7	87.0	90.9	92.6	93.9	94.9	96.2	96.2	97.9	98.5	98.6	99.1	99.1	99.2	99.2
2 100	71.2	83.7	87.0	90.9	92.6	93.9	94.9	96.2	96.2	97.9	98.5	98.6	99.1	99.1	99.4	99.7
2 00	71.2	83.7	87.0	90.9	92.6	93.9	94.9	96.2	96.2	97.9	98.5	98.6	99.1	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 798

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

70793 SEATTLE/TACOMA IAP, WA

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS, U.T.

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	23.5	25.8	26.4	27.3	27.4	27.5	28.3	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.5
≥ 2000	25.4	27.8	28.4	29.3	29.4	29.5	30.3	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.5
≥ 1800	25.5	27.9	28.5	29.4	29.5	29.6	30.4	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.6
≥ 1600	25.7	28.0	28.6	29.5	29.6	29.8	30.5	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.8
≥ 1400	26.5	28.9	29.5	30.4	30.5	30.6	31.4	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.6
≥ 1200	28.6	31.3	32.0	32.9	33.0	33.1	33.9	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.1
≥ 1000	30.4	33.0	33.7	34.6	34.7	34.9	35.6	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.9
≥ 900	31.5	34.1	34.9	35.7	35.9	36.0	36.7	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	37.0
≥ 800	33.9	36.7	37.5	38.5	38.6	38.7	39.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.7
≥ 700	36.4	39.5	40.2	41.2	41.3	41.5	42.3	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.6
≥ 600	38.4	41.7	42.5	43.5	43.6	43.7	44.6	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.8
≥ 500	42.5	46.8	47.7	48.8	48.9	49.1	49.9	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.2
≥ 450	45.0	50.1	51.2	52.3	52.4	52.6	53.4	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.7
≥ 400	48.1	53.3	54.4	55.7	55.8	55.9	56.8	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	57.0
≥ 350	50.8	57.3	58.5	60.1	60.4	60.5	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.6
≥ 300	55.9	63.0	64.9	66.6	67.0	67.1	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.2
≥ 250	60.5	69.5	71.5	73.7	74.1	74.2	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.3
≥ 200	63.6	73.6	76.6	79.3	79.8	80.0	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.1
≥ 180	64.4	74.6	77.6	80.4	81.2	81.3	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.4
≥ 150	65.6	76.5	79.8	82.8	83.6	83.7	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.8
≥ 120	67.6	79.1	82.8	86.2	86.9	87.2	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.4
≥ 100	69.1	80.9	85.2	89.0	89.9	90.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.5
≥ 90	69.2	81.1	85.4	89.3	90.2	90.5	91.5	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.8
≥ 80	69.7	81.9	86.3	90.4	91.3	91.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	93.0
≥ 70	69.7	82.2	86.7	90.8	91.7	92.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.6
≥ 60	69.7	82.2	86.7	91.2	92.2	92.7	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.4
≥ 50	69.7	82.2	86.8	91.3	92.4	92.9	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.8
≥ 40	69.7	82.2	86.9	91.5	92.7	93.4	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.9
≥ 30	69.7	82.2	86.9	91.7	93.0	93.9	95.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	97.3
≥ 20	69.7	82.2	86.9	91.7	93.0	93.9	96.0	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	97.8
≥ 10	69.7	82.2	86.9	91.7	93.0	93.9	96.0	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	97.8
≥ 0	69.7	82.2	86.9	91.7	93.0	93.9	96.0	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	97.8

TOTAL NUMBER OF OBSERVATIONS 803



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7-7930 SEATTLE/TACOMA IAP, WA

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING	22.7	25.8	27.0	27.9	28.7	28.7	28.8	28.9	28.9	28.9	28.9	28.9	29.2	29.2	29.4	29.5
≥ 2000	24.2	27.4	28.7	29.5	30.3	30.3	30.4	30.5	30.5	30.5	30.5	30.5	30.8	30.8	31.0	31.2
≥ 1800	24.2	27.4	28.7	29.5	30.3	30.3	30.4	30.5	30.5	30.5	30.5	30.5	30.8	30.8	31.0	31.2
≥ 1600	24.2	27.4	28.7	29.5	30.3	30.3	30.4	30.5	30.5	30.5	30.5	30.5	30.8	30.8	31.0	31.2
≥ 1400	24.5	27.8	29.0	29.9	30.7	30.7	30.8	30.9	30.9	30.9	30.9	30.9	31.2	31.2	31.4	31.5
≥ 1200	26.4	29.9	31.4	32.3	33.0	33.0	33.2	33.3	33.3	33.3	33.3	33.3	33.5	33.5	33.8	33.9
≥ 1000	27.9	31.5	33.3	34.2	34.9	34.9	35.0	35.2	35.2	35.2	35.2	35.2	35.4	35.4	35.7	35.8
≥ 900	28.8	32.4	34.2	35.0	35.8	35.8	35.9	36.0	36.0	36.0	36.0	36.0	36.3	36.3	36.5	36.7
≥ 800	31.5	35.3	37.0	37.9	38.7	38.7	38.8	38.9	38.9	38.9	38.9	38.9	39.2	39.2	39.4	39.5
≥ 700	34.0	37.8	39.5	40.6	41.4	41.4	41.6	41.7	41.7	41.7	41.7	41.7	41.9	41.9	42.2	42.3
≥ 600	35.2	38.9	40.7	41.7	42.6	42.6	42.7	42.8	42.8	42.8	42.8	42.8	43.1	43.1	43.3	43.4
≥ 500	38.5	43.4	45.4	46.4	47.3	47.3	47.7	47.8	47.8	47.8	47.8	47.8	48.1	48.1	48.3	48.4
≥ 450	42.3	47.7	49.7	50.7	51.6	51.6	51.9	52.1	52.1	52.1	52.1	52.1	52.3	52.3	52.6	52.7
≥ 400	44.8	50.6	52.8	54.1	54.9	54.9	55.3	55.4	55.4	55.4	55.4	55.4	55.7	55.7	55.9	56.1
≥ 350	46.8	53.4	55.8	57.2	58.2	58.2	58.6	58.7	58.7	58.7	58.7	58.7	58.9	58.9	59.2	59.3
≥ 300	50.9	58.9	61.6	63.2	64.5	64.5	65.0	65.1	65.1	65.1	65.1	65.1	65.3	65.3	65.6	65.7
≥ 250	54.3	63.7	66.3	68.6	70.0	70.0	70.5	70.6	70.6	70.6	70.6	70.6	70.8	70.8	71.1	71.2
≥ 200	58.4	69.0	72.1	74.8	76.2	76.2	76.7	76.8	76.8	76.8	76.8	76.8	77.1	77.1	77.3	77.5
≥ 1800	59.2	70.2	73.6	76.8	78.2	78.2	78.7	78.8	78.8	78.8	78.8	78.8	79.1	79.1	79.3	79.5
≥ 1500	61.3	72.8	76.6	80.1	81.5	81.5	82.1	82.2	82.2	82.2	82.2	82.2	82.5	82.5	82.7	82.9
≥ 1200	63.5	75.7	79.7	83.7	85.1	85.1	85.9	86.0	86.0	86.1	86.1	86.1	86.4	86.4	86.6	86.7
≥ 1000	64.6	77.3	81.6	85.7	87.1	87.1	87.9	88.0	88.0	88.4	88.4	88.4	88.6	88.6	88.9	89.0
≥ 900	65.0	77.8	82.4	86.6	88.1	88.1	88.9	89.0	89.0	89.4	89.4	89.4	89.6	89.6	89.9	90.0
≥ 800	65.3	78.5	83.0	87.5	89.0	89.0	89.9	90.1	90.1	90.6	90.6	90.6	90.9	90.9	91.1	91.2
≥ 700	65.6	78.8	83.5	88.0	89.5	89.5	90.5	90.7	90.7	91.4	91.4	91.4	91.6	91.6	91.9	92.0
≥ 600	66.0	79.3	84.0	88.6	90.1	90.1	91.1	91.4	91.4	92.0	92.0	92.0	92.2	92.2	92.5	92.6
≥ 500	66.0	79.5	84.2	89.0	90.5	90.5	91.6	91.9	91.9	92.5	92.5	92.5	92.7	92.7	93.0	93.1
≥ 400	66.1	79.6	84.5	89.2	90.7	90.9	92.2	92.5	92.5	93.2	93.2	93.2	93.5	93.5	93.7	93.9
≥ 300	66.1	79.6	84.5	89.4	91.0	91.1	93.0	93.6	93.6	94.4	94.4	94.4	94.6	94.6	94.9	95.2
≥ 200	66.1	79.6	84.5	89.5	91.1	91.2	93.4	94.1	94.1	95.5	95.6	95.6	96.2	96.2	96.5	96.9
≥ 100	66.1	79.6	84.5	89.5	91.1	91.2	93.4	94.1	94.1	95.7	96.1	96.1	96.7	97.0	98.4	100.0
≥ 0	66.1	79.6	84.5	89.5	91.1	91.2	93.4	94.1	94.1	95.7	96.1	96.1	96.7	97.0	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS 799

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

727930 SEATTLE/TACOMA IAP, WA

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NC (FEET)	20.3	23.0	23.6	24.5	24.8	25.0	25.3	25.4	25.5	25.6	25.7	25.7	25.9	25.9	26.2	26.5
≥ 20000	23.3	25.6	26.2	27.2	27.6	27.8	28.1	28.3	28.3	28.5	28.5	28.5	28.8	28.8	29.1	29.5
≥ 18000	23.5	25.8	26.4	27.4	27.8	28.0	28.3	28.5	28.5	28.7	28.7	28.7	29.0	29.0	29.3	29.7
≥ 16000	23.9	26.2	26.9	27.8	28.2	28.4	28.7	28.9	28.9	29.1	29.1	29.1	29.4	29.4	29.7	30.1
≥ 14000	25.3	27.7	28.4	29.3	29.8	29.9	30.3	30.4	30.5	30.7	30.7	30.7	31.0	31.0	31.3	31.7
≥ 12000	27.3	29.8	30.7	31.6	32.0	32.2	32.5	32.7	32.7	33.0	33.0	33.0	33.2	33.2	33.5	34.0
≥ 10000	28.8	31.5	32.4	33.4	33.8	34.0	34.3	34.5	34.5	34.7	34.8	34.8	35.0	35.0	35.3	35.7
≥ 9000	29.9	32.7	33.6	34.5	35.0	35.1	35.5	35.6	35.7	35.9	35.9	35.9	36.2	36.2	36.5	36.9
≥ 8000	31.2	34.1	35.0	36.0	36.4	36.6	36.9	37.1	37.1	37.3	37.4	37.4	37.6	37.6	37.9	38.4
≥ 7000	33.7	36.0	37.0	38.0	38.5	38.6	39.0	39.1	39.2	39.4	39.4	39.4	39.7	39.7	40.0	40.4
≥ 6000	34.7	37.8	38.7	39.8	40.3	40.4	40.8	41.0	41.0	41.2	41.2	41.2	41.5	41.5	41.8	42.3
≥ 5000	38.1	41.7	42.7	43.8	44.3	44.5	44.8	45.0	45.0	45.3	45.3	45.3	45.6	45.6	45.9	46.4
≥ 4500	41.2	45.1	46.2	47.4	47.9	48.1	48.5	48.7	48.7	49.0	49.0	49.0	49.3	49.3	49.6	50.0
≥ 4000	44.0	48.1	49.3	50.5	51.1	51.3	51.7	51.8	51.9	52.1	52.1	52.1	52.4	52.4	52.7	53.2
≥ 3500	47.3	52.4	53.7	55.1	55.7	55.9	56.3	56.5	56.5	56.7	56.8	56.8	57.1	57.1	57.4	57.8
≥ 3000	51.7	58.1	59.5	61.2	61.9	62.1	62.6	62.8	62.8	63.1	63.2	63.2	63.5	63.5	63.8	64.2
≥ 2500	55.9	63.6	65.1	67.0	67.9	68.1	68.6	68.8	68.8	69.2	69.2	69.2	69.5	69.5	69.8	70.3
≥ 2000	59.7	68.7	70.7	73.0	74.0	74.2	74.8	75.0	75.0	75.4	75.4	75.4	75.7	75.7	76.0	76.4
≥ 1800	60.9	70.2	72.4	74.8	75.9	76.2	76.8	77.0	77.0	77.4	77.4	77.4	77.7	77.7	78.0	78.5
≥ 1500	62.8	72.8	75.3	77.9	79.1	79.4	80.1	80.3	80.4	80.7	80.8	80.8	81.1	81.1	81.4	81.8
≥ 1200	64.5	75.5	78.2	81.1	82.4	82.8	83.6	83.9	83.9	84.4	84.4	84.4	84.7	84.7	85.0	85.5
≥ 1000	65.3	76.8	79.8	82.8	84.2	84.6	85.5	85.8	85.8	86.4	86.4	86.4	86.8	86.8	87.1	87.5
≥ 900	65.5	77.2	80.2	83.4	84.8	85.2	86.2	86.5	86.5	87.1	87.2	87.2	87.5	87.5	87.8	88.2
≥ 800	65.7	77.6	80.8	84.1	85.5	85.9	87.0	87.4	87.4	88.1	88.1	88.1	88.5	88.5	88.8	89.2
≥ 700	65.9	78.0	81.3	84.6	86.0	86.5	87.7	88.1	88.1	88.8	88.9	88.9	89.2	89.2	89.5	90.0
≥ 600	66.1	78.4	81.7	85.2	86.7	87.2	88.5	89.0	89.0	89.7	89.8	89.8	90.1	90.1	90.5	90.9
≥ 500	66.2	78.6	82.0	85.4	87.1	87.6	89.0	89.6	89.6	90.4	90.5	90.5	90.9	90.9	91.2	91.7
≥ 400	66.2	78.7	82.1	85.7	87.4	88.1	89.8	90.5	90.5	91.5	91.6	91.6	92.1	92.1	92.5	92.9
≥ 300	66.2	78.8	82.2	85.9	87.7	88.4	90.3	91.2	91.3	92.6	92.8	92.9	93.4	93.4	93.8	94.3
≥ 200	66.2	78.8	82.2	85.9	87.8	88.5	90.6	91.6	91.6	93.3	93.8	93.8	94.7	94.8	95.4	96.4
≥ 100	66.2	78.8	82.3	85.9	87.8	88.5	90.7	91.6	91.7	93.5	94.0	94.0	95.1	95.1	96.5	99.0
≥ 0	66.2	78.8	82.3	85.9	87.8	88.5	90.7	91.6	91.7	93.5	94.0	94.0	95.1	95.1	96.7	100.0

TOTAL NUMBER OF OBSERVATIONS 6364

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7-7937

SEATTLE/TACOMA IAP, WA

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING	18.9	21.2	21.5	21.7	21.8	21.8	21.8	21.8	21.8	22.0	22.0	22.0	22.2	22.2	22.6	23.2
≥ 2500	21.4	23.7	23.9	24.2	24.3	24.3	24.3	24.3	24.4	24.4	24.4	24.4	24.6	24.6	25.1	25.7
≥ 1800	21.5	23.8	24.0	24.3	24.4	24.4	24.4	24.4	24.4	24.5	24.5	24.5	24.8	24.8	25.2	25.8
≥ 1600	21.5	23.9	24.2	24.4	24.5	24.5	24.5	24.5	24.5	24.6	24.6	24.6	24.9	24.9	25.4	26.0
≥ 1400	21.7	24.2	24.4	24.6	24.8	24.8	24.8	24.8	24.8	24.9	24.9	24.9	25.1	25.1	25.6	26.2
≥ 1200	22.5	25.1	25.4	25.6	25.7	25.7	25.7	25.7	25.7	25.8	25.8	25.8	26.1	26.1	26.6	27.2
≥ 1000	24.8	27.8	28.0	28.4	28.5	28.5	28.5	28.5	28.5	28.6	28.6	28.6	28.9	28.9	29.4	30.0
≥ 900	25.1	28.2	28.4	28.8	28.9	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.2	29.2	29.7	30.3
≥ 800	26.6	29.4	30.1	30.5	30.6	30.6	30.6	30.6	30.6	30.7	30.7	30.7	30.9	30.9	31.4	32.0
≥ 700	27.9	31.8	32.0	32.4	32.5	32.5	32.5	32.5	32.5	32.6	32.6	32.6	32.9	32.9	33.4	34.0
≥ 600	29.6	33.5	33.7	34.1	34.3	34.3	34.3	34.3	34.3	34.7	34.7	34.7	35.0	35.0	35.4	36.0
≥ 500	32.0	36.2	36.4	36.8	37.0	37.0	37.1	37.1	37.1	37.4	37.4	37.4	37.6	37.6	38.1	38.7
≥ 450	34.1	38.8	39.1	39.4	39.8	39.8	39.9	39.9	39.9	40.2	40.2	40.2	40.6	40.6	40.9	41.5
≥ 400	35.8	40.5	40.8	41.3	41.5	41.5	41.6	41.6	41.6	41.9	41.9	41.9	42.1	42.1	42.6	43.2
≥ 350	39.6	45.3	45.9	46.5	46.7	46.7	46.8	46.8	46.8	47.1	47.1	47.1	47.3	47.3	47.8	48.4
≥ 300	44.1	50.8	51.7	52.4	52.7	52.7	52.8	52.8	52.8	53.0	53.0	53.0	53.3	53.3	53.8	54.4
≥ 250	47.3	55.9	57.3	58.1	58.4	58.4	58.5	58.5	58.5	58.7	58.7	58.7	59.0	59.0	59.5	60.1
≥ 200	52.2	62.5	64.8	65.9	66.4	66.4	66.5	66.5	66.5	66.7	66.7	66.7	67.0	67.0	67.5	68.1
≥ 180	53.3	64.1	66.5	67.7	68.4	68.4	68.7	68.7	68.7	68.9	68.9	68.9	69.2	69.2	69.7	70.3
≥ 150	56.4	68.4	71.0	72.5	73.8	74.0	74.3	74.4	74.4	74.6	74.6	74.6	74.9	74.9	75.4	76.0
≥ 120	59.7	72.6	75.8	77.4	79.0	79.2	79.6	79.7	79.7	80.0	80.0	80.0	80.2	80.2	80.7	81.3
≥ 100	61.7	75.2	78.6	80.8	82.6	83.0	83.5	83.6	83.6	83.9	83.9	83.9	84.1	84.1	84.6	85.2
≥ 90	62.1	75.7	79.2	81.7	83.5	83.9	84.3	84.5	84.5	84.7	84.7	84.7	85.0	85.0	85.4	86.0
≥ 80	63.3	76.9	80.6	83.1	85.0	85.4	86.0	86.2	86.2	86.4	86.4	86.4	86.7	86.7	87.1	87.7
≥ 70	64.7	78.6	82.4	85.0	86.8	87.3	87.4	88.0	88.0	88.2	88.2	88.2	88.5	88.5	89.0	89.6
≥ 60	65.2	79.5	83.4	86.3	88.6	89.3	90.0	90.2	90.2	90.4	90.4	90.4	90.7	90.7	91.1	91.7
≥ 50	65.3	80.0	83.9	87.0	89.4	90.2	91.0	91.1	91.1	91.4	91.4	91.4	91.6	91.6	92.1	92.7
≥ 40	65.4	80.2	84.3	87.5	90.3	91.0	92.0	92.1	92.1	92.7	92.8	92.8	93.1	93.1	93.6	94.2
≥ 30	65.4	80.4	84.7	88.0	91.1	92.2	93.4	93.6	93.6	94.3	94.5	94.5	94.8	94.8	95.3	95.9
≥ 20	65.4	80.4	84.7	88.0	91.1	92.2	93.6	93.7	93.7	94.5	94.9	94.9	95.3	95.3	95.8	96.4
≥ 10	65.4	80.4	84.7	88.0	91.1	92.2	93.6	93.7	93.7	94.5	94.9	94.9	95.3	95.3	95.8	96.4
≥ 0	65.4	80.4	84.7	88.0	91.1	92.2	93.6	93.7	93.7	94.5	94.9	94.9	95.3	95.3	95.8	96.4

TOTAL NUMBER OF OBSERVATIONS 824

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

777937

SEATTLE/TACOMA IAP, WA

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

		VISIBILITY - STATUTE MILES															
		20	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	17.4	19.1	19.6	19.7	19.7	19.7	19.9	19.9	19.9	20.2	20.2	20.2	20.3	20.3	20.7	21.1	
900	18.8	20.5	20.9	21.1	21.1	21.1	21.2	21.2	21.2	21.5	21.5	21.5	21.7	21.7	22.0	22.4	
800	18.8	20.5	21.1	21.2	21.2	21.2	21.3	21.3	21.3	21.7	21.7	21.7	21.8	21.8	22.2	22.5	
700	19.5	21.2	21.8	21.9	21.9	21.9	22.0	22.0	22.0	22.4	22.4	22.4	22.5	22.5	22.9	23.2	
600	20.2	21.9	22.5	22.6	22.6	22.6	22.8	22.8	22.8	23.1	23.1	23.1	23.2	23.2	23.6	24.0	
500	21.5	24.0	24.6	24.7	24.8	24.8	24.9	24.9	24.9	25.3	25.3	25.3	25.4	25.4	25.8	26.2	
400	22.8	25.2	25.8	25.9	26.0	26.0	26.2	26.2	26.2	26.5	26.5	26.5	26.6	26.6	27.0	27.4	
300	24.3	26.8	27.4	27.5	27.6	27.6	27.7	27.7	27.7	28.1	28.1	28.1	28.2	28.2	28.6	28.9	
200	26.5	29.1	29.7	29.8	29.9	29.9	30.0	30.0	30.0	30.4	30.4	30.4	30.5	30.5	30.9	31.2	
100	27.8	30.6	31.2	31.4	31.5	31.5	31.6	31.6	31.6	32.1	32.1	32.1	32.2	32.2	32.6	33.1	
50	30.4	33.2	34.0	34.1	34.3	34.3	34.4	34.4	34.4	34.9	34.9	34.9	35.0	35.0	35.4	35.8	
25	31.7	35.2	36.2	36.3	36.4	36.4	36.6	36.6	36.6	37.0	37.0	37.0	37.2	37.2	37.5	38.0	
10	33.9	37.5	38.6	38.7	38.9	38.9	39.1	39.1	39.1	39.6	39.6	39.6	39.7	39.7	40.1	40.6	
5	36.9	40.8	42.0	42.3	42.4	42.4	42.6	42.6	42.6	43.1	43.1	43.1	43.2	43.2	43.6	44.1	
2	41.3	46.5	48.2	48.5	48.7	48.7	48.9	48.9	48.9	49.4	49.4	49.4	49.5	49.5	49.9	50.4	
1	45.0	52.1	54.0	54.4	54.5	54.5	54.8	54.8	54.8	55.3	55.3	55.3	55.6	55.6	55.9	56.4	
0.5	48.7	58.0	60.4	62.0	62.2	62.5	62.8	62.8	62.8	63.3	63.3	63.3	63.7	63.7	64.0	64.5	
0.25	50.8	60.4	63.0	64.5	64.8	65.0	65.4	65.4	65.5	66.0	66.0	66.0	66.3	66.3	66.7	67.2	
0.1	54.8	65.4	67.9	69.7	70.0	70.2	70.7	70.7	70.8	71.3	71.3	71.3	71.7	71.7	72.0	72.5	
0.05	59.7	70.7	73.5	75.4	75.7	76.0	76.5	76.5	76.6	77.1	77.1	77.1	77.5	77.5	78.0	78.5	
0.025	62.7	74.8	77.6	79.9	80.3	80.6	81.1	81.1	81.2	81.7	81.7	81.7	82.1	82.1	82.6	83.1	
0.01	63.2	75.5	78.3	80.8	81.1	81.7	82.3	82.3	82.4	82.9	82.9	82.9	83.3	83.3	83.8	84.3	
0.005	64.0	76.5	79.4	82.0	82.6	83.2	83.8	83.8	83.9	84.4	84.4	84.4	84.7	84.7	85.2	85.7	
0.0025	64.8	77.6	80.6	83.4	84.0	84.7	85.4	85.5	85.6	86.1	86.1	86.1	86.6	86.6	87.0	87.5	
0.001	65.6	78.7	82.1	85.5	86.1	86.8	87.8	87.9	88.0	88.5	88.5	88.5	89.0	89.0	89.5	90.0	
0.0005	65.7	78.9	82.8	86.3	87.2	87.9	88.9	89.0	89.1	89.6	89.6	89.6	90.1	90.1	90.6	91.0	
0.00025	65.9	79.2	83.2	86.7	87.8	88.5	89.7	89.8	90.0	90.4	90.4	90.4	90.9	90.9	91.4	91.9	
0.0001	66.2	79.7	83.7	87.5	89.1	89.8	91.2	91.3	91.4	92.0	92.0	92.1	92.6	92.6	93.1	93.6	
0.00005	66.2	79.7	83.8	87.7	89.2	90.0	91.5	91.8	91.9	93.0	93.2	93.3	93.9	93.9	95.6	96.7	
0.000025	66.2	79.7	83.8	87.7	89.2	90.0	91.5	91.8	91.9	93.0	93.3	93.5	94.3	94.3	96.9	99.5	
0.00001	66.2	79.7	83.8	87.7	89.2	90.0	91.5	91.8	91.9	93.0	93.3	93.5	94.3	94.3	97.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 826

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

777930

SEATTLE/TACOMA IAP, WA

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

0600-0800

CEILING FEET	VISIBILITY STATISTICAL VALUES															
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	10.0
NO OBSERVATIONS	14.5	16.1	16.6	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
2.0000	16.1	17.9	19.4	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
2.1000	16.1	18.1	18.6	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
2.2000	16.4	18.3	18.8	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
2.3000	17.8	19.8	20.3	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
2.4000	18.6	20.6	21.1	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
2.5000	20.4	23.6	24.1	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
2.6000	22.2	25.2	25.6	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
2.7000	23.7	26.6	27.1	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
2.8000	25.0	28.1	28.6	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
2.9000	26.4	29.7	30.2	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
3.0000	30.8	34.3	34.8	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
3.1000	32.0	35.8	36.3	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
3.2000	35.7	39.6	40.4	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
3.3000	37.6	42.5	43.6	44.2	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
3.4000	42.5	48.4	49.8	50.4	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
3.5000	45.9	53.8	55.7	56.4	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
3.6000	50.3	59.5	61.7	62.6	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
3.7000	52.4	61.8	64.1	65.2	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
3.8000	56.4	66.8	69.6	70.8	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
3.9000	61.3	73.0	76.2	77.7	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
4.0000	63.9	75.9	79.1	81.0	82.1	82.3	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
4.1000	65.0	77.0	80.2	82.3	83.4	83.6	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
4.2000	65.0	77.3	80.6	82.7	83.8	84.0	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
4.3000	65.9	79.0	82.3	84.6	85.7	86.0	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
4.4000	66.3	79.9	83.3	86.0	87.2	87.8	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
4.5000	66.4	80.1	83.5	86.3	87.7	88.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
4.6000	66.4	80.5	84.0	86.9	88.3	89.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
4.7000	66.4	80.5	84.1	87.3	89.1	90.1	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
4.8000	66.4	80.6	84.2	87.4	89.3	90.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
4.9000	66.4	80.6	84.2	87.4	89.3	90.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
5.0000	66.4	80.6	84.2	87.4	89.3	90.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4

TOTAL NUMBER OF OBSERVATIONS 819

USAF ETAC

FORM 1-64

0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

77937 SEATTLE/TACOMA IAP, WA  
STATION NAME73-81  
YEARDEC  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)0900-1100  
TIME PERIOD

FLOOR FEET	VISIBILITY - STATUTE MILES																
	20	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	10
NO. CEILING	16.8	17.7	17.7	17.9	18.2	18.2	18.2	18.2	18.2	18.4	18.4	18.4	18.4	18.4	18.5	18.9	
≥ 20000	20.5	21.3	21.4	21.7	21.9	21.9	21.9	21.9	22.0	22.4	22.4	22.4	22.4	22.4	22.5	23.0	
≥ 18000	20.5	21.7	21.8	22.0	22.3	22.3	22.3	22.3	22.4	22.8	22.8	22.8	22.8	22.8	22.9	23.4	
≥ 16000	21.9	22.6	22.8	23.0	23.2	23.2	23.2	23.2	23.4	23.7	23.7	23.7	23.7	23.7	23.8	24.3	
≥ 14000	23.6	24.7	24.8	25.1	25.3	25.3	25.3	25.3	25.4	25.8	25.9	25.9	25.9	25.9	26.0	26.5	
≥ 12000	24.7	26.0	26.2	26.4	26.6	26.6	26.6	26.8	26.9	27.2	27.4	27.4	27.4	27.4	27.5	28.0	
≥ 10000	26.6	28.2	28.3	28.6	28.8	28.8	28.8	28.9	29.1	29.4	29.5	29.5	29.5	29.5	29.7	30.1	
≥ 9000	27.7	29.3	29.4	29.7	29.9	29.9	29.9	30.0	30.1	30.5	30.6	30.6	30.6	30.6	30.8	31.2	
≥ 8000	29.1	30.8	30.9	31.1	31.4	31.4	31.4	31.5	31.6	32.0	32.1	32.1	32.1	32.1	32.2	32.7	
≥ 7000	30.3	32.0	32.1	32.3	32.6	32.6	32.6	32.7	32.8	33.2	33.3	33.3	33.3	33.3	33.4	33.9	
≥ 6000	31.6	33.3	33.4	33.7	33.9	33.9	33.9	34.0	34.1	34.5	34.6	34.6	34.6	34.6	34.7	35.2	
≥ 5000	34.6	36.6	36.9	37.3	37.5	37.5	37.7	37.8	37.9	38.3	38.4	38.4	38.5	38.5	38.6	39.1	
≥ 4500	36.7	38.6	39.2	39.6	39.8	39.8	40.0	40.1	40.2	40.6	40.7	40.7	40.8	40.8	40.9	41.4	
≥ 4000	39.1	41.8	42.4	42.7	43.0	43.0	43.1	43.2	43.3	43.7	43.8	43.8	43.9	43.9	44.1	44.6	
≥ 3500	42.5	45.4	46.0	46.5	46.7	46.7	46.9	47.0	47.1	47.5	47.6	47.6	47.7	47.7	47.8	48.3	
≥ 3000	47.1	51.0	52.1	52.8	53.0	53.0	53.3	53.4	53.5	53.9	54.0	54.0	54.1	54.1	54.2	54.7	
≥ 2500	51.2	56.4	57.5	58.5	59.0	59.0	59.3	59.4	59.6	59.9	60.2	60.2	60.3	60.3	60.4	60.9	
≥ 2000	56.2	63.1	64.3	65.5	66.2	66.2	66.7	66.8	66.9	67.4	67.7	67.7	67.8	67.8	67.9	68.4	
≥ 1800	57.7	64.9	66.3	67.7	68.4	68.5	69.0	69.1	69.2	69.7	70.0	70.0	70.1	70.1	70.2	70.7	
≥ 1500	61.7	69.2	71.3	72.6	73.8	74.0	74.6	74.7	74.8	75.3	75.5	75.5	75.7	75.7	75.8	76.3	
≥ 1200	66.6	74.3	76.4	77.8	79.4	79.7	80.5	80.8	80.9	81.4	81.6	81.6	81.7	81.7	81.8	82.3	
≥ 1000	68.2	76.3	78.5	80.3	82.0	82.2	83.3	83.5	83.8	84.3	84.9	84.9	85.0	85.0	85.1	85.6	
≥ 900	69.7	78.0	80.1	82.0	83.7	83.9	85.0	85.2	85.5	86.0	86.6	86.6	86.7	86.7	86.8	87.3	
≥ 800	70.1	78.8	81.0	82.8	84.6	84.9	86.1	86.4	86.7	87.4	88.1	88.1	88.3	88.3	88.4	88.9	
≥ 700	70.8	79.8	82.0	83.9	85.7	86.0	87.3	87.7	87.9	88.7	89.5	89.5	89.6	89.6	89.7	90.2	
≥ 600	71.1	80.0	82.7	85.0	87.0	87.3	88.7	89.3	89.6	90.7	91.4	91.4	91.5	91.5	91.6	92.1	
≥ 500	71.1	80.1	82.8	85.1	87.2	87.4	89.1	89.7	90.0	91.2	91.9	91.9	92.0	92.0	92.1	92.6	
≥ 400	71.3	80.5	83.2	85.6	87.7	87.9	89.7	90.3	90.6	92.4	93.2	93.2	93.3	93.3	93.5	93.9	
≥ 300	71.3	80.5	83.4	85.8	87.9	88.1	90.3	91.2	91.4	93.5	94.6	94.6	94.9	94.9	95.2	96.0	
≥ 200	71.4	80.6	83.5	86.0	88.0	88.3	90.6	91.5	91.8	94.2	95.6	95.6	96.0	96.0	96.9	97.9	
≥ 100	71.4	80.6	83.5	86.0	88.0	88.3	90.6	91.5	91.8	94.2	95.6	95.6	96.4	96.4	97.2	99.9	
≥ 0	71.4	80.6	83.5	86.0	88.0	88.3	90.6	91.5	91.8	94.2	95.6	95.6	96.4	96.4	97.2	100.0	

TOTAL NUMBER OF OBSERVATIONS 826

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

7.7931

SEATTLE/TACOMA IAP, WA

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

1200-1400

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	2.0	2.0	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
18.3	18.9	18.9	18.9	19.0	19.0	19.0	19.1	19.1	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.4
21.2	21.8	21.8	21.8	22.1	22.1	22.1	22.2	22.2	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.4
21.4	22.2	22.2	22.2	22.4	22.4	22.4	22.5	22.5	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.8
22.9	23.7	23.7	23.7	23.9	23.9	23.9	24.0	24.0	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.3
24.5	25.2	25.2	25.4	25.6	25.6	25.6	25.7	25.7	25.9	25.9	25.9	25.9	25.9	25.9	25.9	26.0
25.6	26.3	26.3	26.6	26.8	26.8	26.8	27.0	27.0	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.2
28.7	29.5	29.5	29.8	30.0	30.0	30.0	30.1	30.1	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.4
29.9	30.8	30.8	31.0	31.3	31.3	31.3	31.4	31.4	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.6
31.6	32.5	32.6	32.8	33.2	33.2	33.2	33.3	33.3	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.6
33.1	33.9	34.1	34.3	34.7	34.7	34.7	34.8	34.8	34.9	34.9	34.9	34.9	34.9	34.9	34.9	35.0
34.7	35.7	35.8	36.0	36.4	36.4	36.4	36.5	36.6	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.9
37.9	39.6	39.7	40.1	40.4	40.4	40.4	40.7	40.8	40.9	40.9	40.9	40.9	40.9	40.9	40.9	41.1
39.3	41.1	41.2	41.5	41.9	41.9	42.2	42.3	42.3	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.5
42.2	44.6	44.7	45.1	45.6	45.6	45.8	46.0	46.0	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.4
46.2	49.5	51.1	50.5	51.0	51.0	51.2	51.3	51.3	51.6	51.6	51.6	51.8	51.8	51.8	51.8	52.0
49.4	53.2	54.4	54.9	55.4	55.4	55.8	55.9	55.9	56.1	56.1	56.1	56.4	56.4	56.4	56.4	56.5
51.6	56.4	57.8	58.7	59.2	59.2	59.7	59.8	59.8	60.0	60.0	60.0	60.3	60.3	60.3	60.3	60.4
56.5	63.4	65.6	66.9	67.6	67.6	68.4	68.5	68.5	68.8	68.8	68.8	69.0	69.0	69.0	69.0	69.1
58.2	65.7	68.1	69.6	70.3	70.3	71.3	71.4	71.4	71.7	71.7	71.7	71.9	71.9	71.9	71.9	72.1
59.9	68.3	71.0	72.8	73.5	73.5	74.9	75.0	75.0	75.2	75.2	75.2	75.5	75.5	75.5	75.5	75.6
64.5	73.4	76.5	78.4	79.3	79.4	81.0	81.1	81.1	81.5	81.5	81.5	81.7	81.7	81.7	81.7	81.9
66.7	76.2	79.4	81.6	82.7	83.0	84.6	84.7	84.7	85.0	85.0	85.0	85.3	85.3	85.3	85.3	85.4
67.4	77.3	80.5	82.7	84.1	84.3	86.0	86.2	86.2	86.6	86.6	86.6	86.9	86.9	86.9	86.9	87.0
67.4	77.6	80.8	83.0	84.3	84.6	86.6	86.9	86.9	88.0	88.0	88.0	88.2	88.2	88.2	88.2	88.4
67.4	78.1	81.6	84.1	85.7	85.9	88.2	88.6	88.6	89.8	90.0	90.0	90.2	90.2	90.2	90.2	90.3
67.8	78.8	82.7	85.7	87.4	87.7	90.4	90.9	90.9	92.2	92.4	92.4	92.8	92.8	92.8	92.8	92.9
67.8	78.8	83.0	86.0	88.0	88.4	91.1	91.5	91.5	92.9	93.1	93.1	93.5	93.5	93.5	93.5	93.6
67.8	78.8	83.2	86.3	88.2	88.7	91.8	92.5	92.5	94.1	94.7	94.7	95.1	95.1	95.1	95.1	95.2
67.8	78.9	83.3	86.5	88.6	89.1	92.5	93.4	93.4	95.5	96.4	96.4	96.9	96.9	96.9	97.1	97.3
67.8	78.9	83.3	86.5	88.7	89.2	92.8	94.0	94.0	96.4	97.4	97.4	98.2	98.2	98.2	98.3	99.3
67.8	78.9	83.3	86.5	88.7	89.2	92.8	94.0	94.0	96.4	97.4	97.4	98.2	98.2	98.2	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 816

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

71793 SEATTLE/TACOMA IAP, WA

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY IN STATUTE MILES															
	210	24	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥ 10000	19.6	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.4	20.4	20.4	20.5	20.5	20.5	20.7
≥ 7000	22.2	22.9	22.9	22.9	22.9	22.9	22.9	23.1	23.1	23.2	23.2	23.2	23.3	23.3	23.4	23.7
≥ 5000	22.2	22.9	22.9	22.9	22.9	22.9	22.9	23.1	23.1	23.2	23.2	23.2	23.3	23.3	23.4	23.7
≥ 4000	23.3	24.2	24.2	24.2	24.2	24.2	24.2	24.3	24.3	24.4	24.4	24.4	24.5	24.5	24.7	24.9
≥ 3000	24.1	24.9	24.9	24.9	24.9	24.9	24.9	25.0	25.0	25.2	25.2	25.2	25.3	25.3	25.5	25.8
≥ 2000	25.0	25.9	25.9	26.0	26.1	26.1	26.3	26.4	26.4	26.5	26.5	26.5	26.6	26.6	26.9	27.1
≥ 1000	27.9	28.7	28.7	28.8	29.0	29.0	29.1	29.2	29.2	29.3	29.3	29.3	29.4	29.4	29.7	29.9
≥ 900	28.8	29.7	29.7	29.8	29.9	29.9	30.1	30.2	30.2	30.3	30.3	30.3	30.4	30.4	30.7	30.9
≥ 800	30.2	31.0	31.0	31.2	31.3	31.3	31.4	31.5	31.5	31.7	31.7	31.7	31.8	31.8	32.0	32.3
≥ 700	32.3	33.3	33.3	33.4	33.5	33.5	33.6	33.7	33.7	33.9	33.9	33.9	34.0	34.0	34.2	34.5
≥ 600	34.6	35.6	35.6	35.7	35.8	35.8	36.0	36.1	36.1	36.2	36.2	36.2	36.3	36.3	36.6	36.8
≥ 500	37.7	38.8	38.9	39.0	39.4	39.4	39.5	39.6	39.6	39.8	39.8	39.8	39.9	39.9	40.1	40.4
≥ 450	40.0	41.3	41.5	41.6	42.1	42.1	42.2	42.3	42.3	42.5	42.5	42.5	42.6	42.6	42.8	43.1
≥ 400	43.2	44.9	45.3	45.5	46.5	46.5	46.6	46.7	46.7	46.9	46.9	46.9	47.0	47.0	47.2	47.5
≥ 350	46.9	49.2	49.7	50.1	51.0	51.0	51.3	51.5	51.5	51.7	51.7	51.7	51.8	51.8	52.0	52.3
≥ 300	53.3	53.9	54.6	55.3	56.7	56.7	57.2	57.4	57.4	57.5	57.5	57.5	57.7	57.7	57.9	58.2
≥ 250	55.5	59.5	60.5	62.0	63.9	64.0	64.8	65.0	65.0	65.3	65.3	65.3	65.4	65.4	65.6	65.9
≥ 200	59.9	65.8	67.0	68.7	71.3	71.4	72.6	73.0	73.0	73.4	73.4	73.4	73.5	73.5	73.7	74.0
≥ 180	61.0	67.9	69.2	71.3	73.9	74.0	75.5	75.8	75.8	76.2	76.2	76.2	76.3	76.3	76.6	76.8
≥ 150	63.1	70.7	72.3	74.5	77.3	77.4	79.1	79.6	79.6	80.0	80.0	80.0	80.1	80.1	80.4	80.6
≥ 120	66.7	75.5	77.5	80.0	83.1	83.2	85.4	86.0	86.0	86.5	86.6	86.6	86.7	86.7	87.0	87.2
≥ 100	67.9	76.9	79.0	82.1	85.2	85.3	87.5	88.2	88.2	88.8	89.0	89.0	89.1	89.1	89.3	89.6
≥ 90	68.2	77.4	79.9	82.9	86.1	86.3	88.6	89.3	89.3	89.9	90.1	90.1	90.2	90.2	90.4	90.7
≥ 80	68.5	78.2	80.6	83.7	87.0	87.1	89.4	90.2	90.2	90.8	90.9	90.9	91.0	91.0	91.3	91.5
≥ 70	69.0	78.8	81.3	84.7	88.0	88.2	90.6	91.3	91.3	91.9	92.0	92.0	92.1	92.1	92.4	92.6
≥ 60	69.1	79.4	82.2	85.5	88.8	89.1	91.4	92.3	92.3	93.3	93.5	93.5	93.6	93.6	93.9	94.1
≥ 50	69.1	79.5	82.6	85.9	89.2	89.4	91.8	92.8	92.8	93.7	94.0	94.0	94.1	94.1	94.4	94.6
≥ 40	69.1	79.5	82.6	86.4	89.8	90.2	92.9	94.0	94.0	95.6	96.1	96.1	96.2	96.2	96.4	96.7
≥ 30	69.1	79.5	82.6	86.4	89.8	90.2	92.9	94.4	94.4	96.7	97.3	97.3	98.2	98.2	98.5	99.0
≥ 20	69.1	79.5	82.6	86.4	89.8	90.2	92.9	94.4	94.4	96.7	97.3	97.3	98.2	98.2	98.5	100.0
≥ 10	69.1	79.5	82.6	86.4	89.8	90.2	92.9	94.4	94.4	96.7	97.3	97.3	98.2	98.2	98.5	100.0
≥ 0	69.1	79.5	82.6	86.4	89.8	90.2	92.9	94.4	94.4	96.7	97.3	97.3	98.2	98.2	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 815

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7793 SEATTLE/TACOMA IAP, WA

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000

		VISIBILITY, STATUTE MILES															
		20	20	25	34	23	22	21	20	19	18	17	16	15	14	13	12
CEILING FEET																	
2 2000	21.7	23.3	23.6	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
2 1800	23.1	24.5	24.8	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
2 1600	23.2	24.8	25.0	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
2 1400	23.7	25.3	25.5	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6
2 1200	25.3	26.9	27.1	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2 1000	27.5	29.2	29.4	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
2 800	27.6	29.4	29.6	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
2 600	29.6	31.6	31.8	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
2 400	37.0	33.9	34.1	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
2 200	33.3	35.5	35.8	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
2 100	36.6	38.8	39.1	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
2 500	39.2	42.6	43.0	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
2 400	41.1	45.4	45.9	46.4	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
2 350	44.6	49.6	50.2	50.8	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
2 300	48.4	54.6	55.4	56.0	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
2 250	52.6	60.4	61.2	62.1	62.8	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
2 200	56.9	66.0	67.3	69.1	70.1	70.2	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
2 1800	58.9	69.0	70.6	72.7	73.8	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
2 1500	62.6	73.4	75.2	77.5	78.7	79.0	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
2 1200	64.9	76.9	79.5	82.0	83.5	83.7	84.6	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
2 1000	67.7	79.3	81.9	84.7	86.3	86.5	87.4	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
2 900	67.9	80.7	83.2	86.4	88.0	88.3	89.2	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
2 800	68.4	81.3	84.0	87.6	89.2	89.6	90.4	91.1	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
2 700	69.5	82.4	85.1	88.8	90.4	90.8	91.6	92.3	92.3	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
2 600	70.0	82.9	85.9	89.7	91.3	91.6	92.5	93.2	93.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
2 500	70.0	82.9	85.9	89.7	91.3	91.6	92.5	93.2	93.2	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
2 400	70.1	83.5	86.9	90.9	92.6	93.0	93.9	94.7	94.7	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3
2 300	70.1	83.5	87.0	91.3	93.0	93.4	94.8	95.5	95.5	96.2	96.6	96.6	96.6	96.6	96.6	96.6	96.6
2 200	70.2	83.6	87.1	91.7	93.4	93.9	95.4	96.4	96.4	97.2	97.6	97.6	97.6	98.1	98.1	98.1	98.3
2 100	70.2	83.6	87.1	91.7	93.4	93.9	95.4	96.4	96.4	97.2	97.6	97.6	97.6	98.2	98.2	98.3	99.9
2 50	70.2	83.6	87.1	91.7	93.4	93.9	95.4	96.4	96.4	97.2	97.6	97.6	97.6	98.2	98.2	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 823



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7793

SEATTLE/TACOMA IAP, WA

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	20	21	24	25	26	27	28	29	30	31	32	33	34	35	20
≥ 8000	22.7	23.8	24.2	24.3	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.6	24.7
≥ 7000	22.7	25.9	26.3	26.5	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.8	26.9
≥ 6000	23.1	26.2	26.5	26.8	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	27.0	27.1
≥ 5000	23.1	26.3	26.6	26.9	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.1	27.3
≥ 4000	24.1	27.3	27.6	27.9	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.1	28.2
≥ 3000	25.5	28.7	29.1	29.3	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.6	29.7
≥ 2000	27.1	30.7	31.0	31.3	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.5	31.6
≥ 1800	27.6	31.1	31.6	31.9	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.2
≥ 1600	28.7	32.6	33.1	33.3	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.6	33.7
≥ 1400	30.2	34.4	34.9	35.2	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.4	35.5
≥ 1200	31.3	35.8	36.4	36.6	36.7	36.7	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.1	37.2
≥ 1000	34.4	39.2	39.9	40.1	40.3	40.3	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.6	40.8
≥ 800	38.7	44.9	45.7	46.1	46.2	46.2	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.7	46.8
≥ 600	39.4	46.0	47.2	47.6	47.7	47.7	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.2	48.3
≥ 400	42.9	50.9	52.1	52.4	52.8	52.8	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.3	53.4
≥ 300	46.1	55.6	56.8	57.2	57.5	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	58.0	58.2
≥ 200	49.5	61.1	62.4	62.9	63.7	63.7	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.4	64.5
≥ 180	53.8	67.3	69.5	70.3	71.3	71.3	72.0	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.3	72.4
≥ 160	55.4	69.5	71.8	72.9	73.8	73.8	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.9	75.1
≥ 140	58.6	73.8	76.4	77.7	78.7	78.7	79.6	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.9	80.0
≥ 120	61.1	77.6	80.2	81.9	83.0	83.1	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.7	84.8
≥ 100	62.7	79.8	82.6	84.5	85.8	85.9	87.2	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.6	87.7
≥ 80	62.9	80.2	83.3	85.5	86.9	87.0	88.3	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.7	88.8
≥ 60	63.5	81.0	84.2	86.5	87.8	88.0	89.3	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.7	89.8
≥ 40	64.7	81.9	85.2	87.7	89.2	89.3	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.0	91.1
≥ 30	64.5	82.8	86.3	88.9	90.4	90.5	91.8	92.1	92.1	92.2	92.2	92.2	92.2	92.2	92.3	92.5
≥ 20	64.5	83.0	86.4	89.1	90.5	90.6	92.0	92.2	92.2	92.5	92.5	92.5	92.5	92.5	92.6	92.7
≥ 10	64.5	83.1	86.7	89.7	91.4	91.5	92.8	93.2	93.2	93.4	93.4	93.4	93.4	93.4	93.6	93.7
≥ 5	64.7	83.3	87.0	90.4	92.3	92.5	93.9	94.4	94.4	94.6	94.6	94.6	94.6	94.8	94.9	95.0
≥ 3	64.8	83.6	87.2	90.6	92.6	92.7	94.6	95.1	95.1	95.6	95.9	95.9	95.9	96.8	97.7	97.8
≥ 1	64.8	83.6	87.2	90.6	92.6	92.7	94.9	95.4	95.4	95.9	96.1	96.1	96.1	97.4	97.4	98.4
≥ 0	64.8	83.6	87.2	90.6	92.6	92.7	94.9	95.4	95.4	95.9	96.1	96.1	96.1	97.4	97.4	98.4

TOTAL NUMBER OF OBSERVATIONS 822

USAF ETAC 1280 JUL 84 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

7793 SEATTLE/TACOMA IAP, WA

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

ELEVATION FEET	VISIBILITY - STATUTE MILES																		
	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9
18000	18.5	20.1	23.3	20.4	20.5	20.5	20.5	20.5	20.5	20.7	20.7	20.7	20.8	20.8	20.9	21.2			
2 20000	20.7	22.3	22.6	22.7	22.8	22.8	22.8	22.9	22.9	23.1	23.1	23.1	23.1	23.1	23.3	23.6			
2 20000	20.9	22.5	22.8	22.9	23.0	23.0	23.0	23.0	23.1	23.2	23.3	23.3	23.3	23.3	23.5	23.8			
2 20000	21.4	23.0	23.3	23.4	23.5	23.5	23.5	23.6	23.6	23.8	23.8	23.8	23.9	23.9	24.0	24.3			
2 20000	22.4	24.1	24.3	24.5	24.6	24.6	24.6	24.6	24.6	24.8	24.9	24.9	24.9	24.9	25.1	25.4			
2 20000	23.4	25.2	25.4	25.6	25.7	25.7	25.8	25.8	25.8	26.0	26.1	26.1	26.1	26.1	26.3	26.6			
2 20000	25.6	27.7	28.0	28.2	28.3	28.3	28.4	28.4	28.4	28.6	28.6	28.6	28.7	28.7	28.9	29.2			
2 20000	26.9	28.6	28.9	29.1	29.2	29.2	29.3	29.3	29.3	29.5	29.5	29.5	29.6	29.6	29.8	30.1			
2 20000	28.0	30.2	30.5	30.7	30.9	30.9	30.9	31.0	31.0	31.2	31.2	31.2	31.3	31.3	31.4	31.7			
2 20000	29.6	32.0	32.3	32.6	32.7	32.7	32.8	32.8	32.8	33.0	33.1	33.1	33.1	33.1	33.3	33.6			
2 20000	31.2	33.7	34.0	34.3	34.5	34.5	34.6	34.6	34.6	34.8	34.9	34.9	34.9	34.9	35.1	35.4			
2 20000	34.3	37.1	37.5	37.8	38.0	38.0	38.1	38.2	38.2	38.4	38.4	38.4	38.5	38.5	38.7	39.0			
2 20000	36.5	39.8	40.3	40.6	40.8	40.8	41.0	41.0	41.0	41.3	41.3	41.3	41.4	41.4	41.6	41.9			
2 20000	38.7	42.5	43.2	43.5	43.8	43.8	44.0	44.1	44.1	44.3	44.3	44.3	44.4	44.4	44.6	44.9			
2 20000	42.1	46.6	47.4	47.9	48.2	48.2	48.4	48.5	48.5	48.7	48.8	48.8	48.9	48.9	49.1	49.4			
2 20000	46.2	51.7	52.9	53.4	53.9	53.9	54.1	54.2	54.2	54.4	54.4	54.4	54.6	54.6	54.8	55.0			
2 20000	49.8	56.9	58.3	59.1	59.8	59.8	60.2	60.2	60.2	60.5	60.5	60.5	60.7	60.7	60.9	61.2			
2 20000	54.3	63.2	65.1	66.4	67.3	67.3	67.8	67.9	68.0	68.2	68.3	68.3	68.4	68.4	68.6	68.9			
2 20000	56.0	65.4	67.4	68.9	69.9	70.0	70.6	70.7	70.7	71.0	71.0	71.0	71.2	71.2	71.4	71.7			
2 20000	59.2	69.5	71.8	73.5	74.7	74.8	75.6	75.7	75.7	76.0	76.1	76.1	76.2	76.2	76.4	76.7			
2 20000	63.0	74.3	76.9	78.8	80.2	80.4	81.4	81.6	81.6	81.9	82.0	82.0	82.2	82.2	82.4	82.7			
2 20000	65.1	76.8	79.6	81.9	83.4	83.6	84.7	84.9	85.0	85.3	85.5	85.5	85.6	85.6	85.8	86.1			
2 20000	65.8	77.7	80.6	83.0	84.6	84.9	86.0	86.2	86.3	86.7	86.8	86.8	87.0	87.0	87.2	87.5			
2 20000	66.3	78.5	81.4	83.9	85.5	85.8	87.0	87.3	87.4	87.9	88.0	88.0	88.2	88.2	88.4	88.7			
2 20000	67.0	79.5	82.6	85.3	86.9	87.3	88.5	88.8	88.9	89.4	89.6	89.6	89.8	89.8	90.0	90.3			
2 20000	67.4	80.2	83.6	86.6	88.3	88.8	90.2	90.6	90.6	91.3	91.5	91.5	91.7	91.7	91.9	92.2			
2 20000	67.5	80.4	83.9	86.9	88.8	89.3	90.7	91.1	91.2	91.9	92.1	92.1	92.3	92.3	92.5	92.8			
2 20000	67.6	80.7	84.3	87.5	89.5	90.0	91.6	92.1	92.1	93.1	93.4	93.4	93.7	93.7	93.9	94.2			
2 20000	67.6	80.8	84.5	87.9	90.1	90.7	92.6	93.2	93.2	94.5	94.9	95.0	95.3	95.3	95.6	96.0			
2 20000	67.7	80.9	84.6	88.0	90.3	90.8	92.9	93.7	93.7	95.2	95.8	95.8	96.5	96.5	97.3	98.0			
2 20000	67.7	80.9	84.6	88.0	90.3	90.8	93.0	93.7	93.7	95.3	95.9	95.9	96.8	96.8	97.8	99.7			
2 20000	67.7	80.9	84.6	88.0	90.3	90.8	93.0	93.7	93.7	95.3	95.9	95.9	96.8	96.8	97.9	100.0			

TOTAL NUMBER OF OBSERVATIONS 6571

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7-7931 SEATTLE/TACOMA IAP, WA

73-81

ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING	33.1	35.1	35.6	36.0	36.2	36.3	36.4	36.5	36.5	36.6	36.6	36.6	36.7	36.7	36.7	36.8
≥ 2000	36.1	38.3	38.8	39.2	39.5	39.5	39.7	39.7	39.7	39.8	39.9	39.9	40.0	40.0	40.1	40.2
≥ 1800	36.3	38.5	39.0	39.5	39.7	39.8	40.0	40.0	40.0	40.1	40.1	40.1	40.2	40.2	40.3	40.4
≥ 1600	36.7	38.9	39.4	39.9	40.1	40.2	40.4	40.4	40.4	40.5	40.6	40.6	40.6	40.7	40.7	40.8
≥ 1400	37.7	40.0	40.5	41.0	41.2	41.3	41.5	41.5	41.5	41.6	41.7	41.7	41.8	41.8	41.9	42.0
≥ 1200	39.4	41.7	42.3	42.8	43.0	43.1	43.2	43.3	43.3	43.4	43.4	43.4	43.5	43.5	43.6	43.7
≥ 1000	41.1	43.6	44.2	44.7	44.9	45.0	45.2	45.2	45.3	45.4	45.4	45.4	45.5	45.5	45.6	45.7
≥ 900	42.2	44.7	45.3	45.8	46.1	46.1	46.3	46.4	46.4	46.5	46.5	46.5	46.6	46.6	46.7	46.8
≥ 800	43.6	46.3	46.9	47.4	47.6	47.7	47.9	47.9	47.9	48.1	48.1	48.1	48.2	48.2	48.3	48.4
≥ 700	45.4	48.2	48.8	49.3	49.5	49.6	49.8	49.8	49.8	50.0	50.0	50.0	50.1	50.1	50.2	50.3
≥ 600	47.2	50.1	50.7	51.2	51.5	51.5	51.7	51.8	51.8	51.9	52.0	52.0	52.1	52.1	52.2	52.3
≥ 500	50.6	53.6	54.3	54.9	55.1	55.2	55.4	55.5	55.5	55.6	55.6	55.6	55.7	55.8	55.8	56.0
≥ 450	53.2	56.5	57.2	57.8	58.1	58.2	58.4	58.5	58.5	58.6	58.6	58.6	58.7	58.7	58.8	58.9
≥ 400	55.8	59.3	60.1	60.7	61.0	61.1	61.3	61.4	61.4	61.5	61.5	61.5	61.7	61.7	61.8	61.9
≥ 350	59.7	63.0	63.9	64.5	64.9	64.9	65.2	65.2	65.2	65.4	65.4	65.4	65.5	65.5	65.6	65.7
≥ 300	63.2	67.9	69.0	69.7	70.1	70.2	70.5	70.5	70.6	70.7	70.7	70.7	70.8	70.9	70.9	71.1
≥ 250	66.8	72.4	73.6	74.5	75.0	75.1	75.4	75.5	75.5	75.6	75.7	75.7	75.8	75.8	75.9	76.0
≥ 200	70.3	76.8	78.2	79.3	79.9	80.0	80.4	80.5	80.5	80.7	80.7	80.7	80.8	80.8	80.9	81.0
≥ 180	71.7	78.4	80.0	81.1	81.7	81.9	82.3	82.4	82.4	82.5	82.6	82.6	82.7	82.7	82.8	82.9
≥ 150	73.8	81.1	82.8	84.1	84.8	84.9	85.3	85.5	85.5	85.7	85.7	85.7	85.8	85.8	85.9	86.0
≥ 120	76.1	84.2	85.9	87.4	88.2	88.4	88.9	89.1	89.1	89.3	89.3	89.3	89.4	89.4	89.6	89.7
≥ 100	77.1	85.6	87.5	89.1	90.0	90.2	90.8	90.9	90.9	91.2	91.2	91.2	91.4	91.4	91.5	91.6
≥ 90	77.5	86.1	88.0	89.7	90.6	90.8	91.4	91.6	91.6	91.9	91.9	91.9	92.0	92.0	92.2	92.3
≥ 80	77.7	86.5	88.5	90.3	91.2	91.5	92.1	92.3	92.3	92.6	92.6	92.6	92.8	92.8	92.9	93.0
≥ 70	78.0	87.0	89.1	90.9	91.9	92.2	92.9	93.1	93.1	93.4	93.5	93.5	93.6	93.6	93.7	93.8
≥ 60	78.3	87.5	89.7	91.6	92.7	93.0	93.8	94.1	94.1	94.4	94.5	94.5	94.6	94.7	94.8	94.9
≥ 50	78.3	87.7	89.9	91.9	93.1	93.4	94.3	94.6	94.6	95.0	95.1	95.1	95.2	95.2	95.4	95.5
≥ 40	78.4	87.8	90.1	92.3	93.5	93.9	94.9	95.3	95.3	95.8	95.9	96.0	96.1	96.1	96.3	96.4
≥ 30	78.4	87.9	90.3	92.5	93.9	94.3	95.4	96.0	96.0	96.7	96.9	96.9	97.2	97.2	97.4	97.5
≥ 20	78.4	87.9	90.3	92.6	94.0	94.4	95.8	96.3	96.3	97.2	97.5	97.5	98.0	98.0	98.3	98.8
≥ 10	78.4	87.9	90.3	92.6	94.0	94.4	95.8	96.3	96.3	97.3	97.6	97.6	98.2	98.2	98.8	99.8
≥ 0	78.4	87.9	90.3	92.6	94.0	94.4	95.8	96.3	96.3	97.3	97.6	97.6	98.2	98.2	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 77531

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



TOTAL SKY COVER

FOR AIRWAYS STATIONS THE SYMBOLS OF CLEAR, SCATTERED, BROKEN, OVERCAST, & OBSCURED WERE USED AS INPUT FOR THE TOTAL SKY COVER.

CLEAR WAS CONVERTED TO 0/10

SCATTERED WAS CONVERTED TO 3/10

BROKEN WAS CONVERTED TO 9/10

OVERCAST WAS CONVERTED TO 10/10

OBSCURED WAS CONVERTED TO 10/10

NOTE: PERCENTAGES IN OTHER TENTHS CLASSES SHOULD BE DISREGARDED, BECAUSE THEY ARE NOT STATISTICALLY SIGNIFICANT.



## SKY COVER

**JAN**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JAN	00-02	17.2			10.3						9.0	63.5	7.5	819
	03-05	16.8			7.7						10.8	64.7	7.7	827
	06-08	12.2			8.7						11.8	67.4	8.1	806
	09-11	7.6			9.9						17.9	64.6	8.4	817
	12-14	7.8			10.9						17.9	63.4	8.3	817
	15-17	7.3			13.6						18.7	60.4	8.1	824
	18-20	11.9			11.1						13.2	63.8	7.9	831
	21-23	13.6			12.3						10.8	63.3	7.7	826
TOTALS		11.8			10.6						13.8	63.9	8.0	6567



## SKY COVER

**FEB**  
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
FEB	00-02	12.1			9.3						13.7	64.9	8.0	752
	03-05	9.0			9.1						13.6	68.3	8.3	748
	06-08	5.9			7.8						17.2	69.1	8.7	745
	09-11	5.3			7.6						22.8	64.3	8.7	750
	12-14	3.8			11.1						21.8	63.3	8.6	746
	15-17	5.7			12.4						23.5	58.3	8.3	749
	18-20	10.0			14.7						14.0	61.2	7.8	748
	21-23	13.1			9.9						15.8	61.2	7.8	747
TOTALS		8.1			10.2						17.8	63.8	8.3	5985



## SKY COVER

MAR

MONITORING

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS	
		0	1	2	3	4	5	6	7	8	9	10		
MAR	00-02	14.3			12.3						14.3	59.1	7.6	826
	03-05	11.0			10.2						17.3	61.5	8.0	826
	06-08	5.8			12.7						19.1	62.4	8.3	828
	09-11	5.1			13.7						26.9	54.3	8.3	823
	12-14	6.0			14.7						27.1	52.2	8.1	823
	15-17	6.3			13.5						27.8	52.0	8.1	824
	18-20	8.5			15.5						23.9	52.1	7.8	821
	21-23	13.9			13.9						18.6	53.5	7.4	826
TOTALS		8.9			13.3						21.9	55.9	8.0	6597



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SKY COVER

727932 SEATTLE/TACOMA IAP, WA  
STATION

73-81  
PERIOD

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
APR	00-02	19.7			15.8						16.3	48.9	6.8	799
	03-05	16.1			14.4						17.4	52.1	7.2	794
	06-08	8.6			11.2						21.8	58.4	8.1	793
	09-11	8.7			12.6						28.7	50.0	8.0	802
	12-14	6.9			18.5						27.2	47.4	7.7	794
	15-17	5.9			22.2						24.7	47.2	7.6	798
	18-20	8.7			21.1						22.2	48.0	7.4	796
	21-23	17.8			17.8						16.5	47.8	6.8	807
TOTALS		11.5			16.7						21.9	50.0	7.5	6383

USAFETAC

FORM 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SKY COVER

777930

SEATTLE/TACOMA IAP, WA

73-81

MAY

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
MAY	00-02	19.2			16.9						19.9	43.9	6.7	826
	03-05	14.8			16.2						15.1	53.9	7.2	826
	06-08	11.6			11.3						19.0	58.1	7.9	817
	09-11	8.6			16.0						30.2	45.1	7.7	824
	12-14	8.9			22.2						27.3	41.5	7.3	816
	15-17	8.6			26.3						26.3	38.9	7.0	826
	18-20	11.1			22.9						25.4	40.6	7.0	820
	21-23	19.8			21.5						15.2	43.5	6.4	829
TOTALS		12.8			19.2						22.3	45.7	7.2	6584

USAFETAC

FORM  
AA 44 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.



8  
2  
①GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SKY COVER

77930  
STATIONSEATTLE/TACOMA IAP, WA  
STATION NAME73-81  
PERIODJUN  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
JUN	00-02	26.5			13.0						16.8	43.7	6.3	799
	03-05	16.8			13.3						19.5	50.4	7.2	799
	06-08	11.9			13.6						18.2	56.3	7.7	787
	09-11	9.5			18.4						26.7	45.4	7.5	799
	12-14	10.9			20.5						30.4	38.2	7.2	799
	15-17	12.4			20.3						34.4	33.0	7.0	800
	18-20	15.5			20.8						30.6	33.0	6.7	793
	21-23	21.9			21.4						22.9	33.8	6.1	799
TOTALS		15.7			17.7						24.9	41.7	7.0	6375

USAFETAC

FORM  
JUL 64 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.



## SKY COVER

JUL

**Abstract**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JUL	00-02	38.6			13.0						12.6	35.8	5.1	832
	03-05	30.7			13.4						15.6	40.3	5.8	823
	06-08	24.6			11.4						15.8	48.2	6.6	824
	09-11	23.2			16.8						21.8	38.2	6.3	827
	12-14	26.0			22.1						23.5	28.4	5.6	823
	15-17	29.1			22.3						25.1	23.5	5.3	821
	18-20	30.8			22.6						22.1	24.4	5.1	827
	21-23	37.6			18.8						15.3	28.4	4.8	825
TOTALS		30.1			17.6						19.0	33.4	5.6	6602



2

7/7932	SEATTLE/TACOMA IAP,WA	73-81	AUG
STATION	STATION NAME	PER OD	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
AUG	00-02	36.9			12.4						13.5	37.2	5.3	823
	03-05	27.0			12.1						11.5	49.4	6.3	826
	06-08	16.1			17.3						13.4	60.1	7.5	812
	09-11	18.7			14.6						20.0	46.7	6.9	823
	12-14	23.5			22.3						20.7	33.5	5.9	821
	15-17	26.8			24.2						21.4	27.6	5.4	822
	18-20	30.0			24.4						17.8	27.6	5.1	824
	21-23	38.4			18.0						13.3	30.3	4.8	826
TOTALS		27.2			17.3						16.5	39.1	5.9	6577



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

# SKY COVER

7 1931 SEATTLE/TACOMA IAP, WA 73-81 SEP  
STATION STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
SEP	00-02	37.4			12.8						11.9	37.9	5.2	797
	03-05	31.1			10.6						13.5	44.8	6.0	794
	06-08	18.0			16.0						16.9	49.2	6.9	777
	09-11	18.3			19.4						19.3	43.1	6.6	800
	12-14	20.9			21.9						22.4	34.8	6.2	794
	15-17	26.2			19.4						24.3	30.2	5.8	799
	18-20	32.2			17.3						20.1	30.4	5.4	797
	21-23	39.0			16.1						14.7	30.1	4.8	794
TOTALS		27.9			16.7						17.9	37.6	5.9	6352



### SKY COVER

OCT

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
OCT	00-02	28.5			12.4						13.6	45.4	6.1	806
	03-05	20.1			11.0						13.8	55.1	7.1	806
	06-08	10.8			12.2						16.9	60.1	7.9	804
	09-11	11.2			11.2						22.7	55.0	7.9	816
	12-14	12.9			18.5						22.4	46.3	7.2	823
	15-17	16.8			17.9						20.5	44.8	6.9	826
	18-20	23.3			18.0						15.6	43.1	6.3	823
	21-23	30.3			13.0						14.9	41.8	5.9	823
TOTALS		19.2			14.3						17.6	49.0	6.9	6527



2

NOV

STATION

STATION NAME

PERIOD

MINIM

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
NOV	00-02	10.7			10.6						13.5	65.2	8.1	776
	03-05	11.3			10.4						15.1	63.2	8.0	789
	06-08	7.5			11.4						14.6	66.5	8.3	782
	09-11	5.1			12.3						18.9	63.8	8.4	790
	12-14	5.8			11.2						17.6	65.4	8.5	792
	15-17	7.3			13.1						17.5	62.2	8.2	796
	18-20	13.0			10.8						14.1	62.1	7.8	797
	21-23	14.3			12.3						10.4	62.9	7.6	796
TOTALS		9.4			11.5						15.2	63.9	8.1	6318

FORM  
JUL 64

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.



## SKY COVER

707937  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81

DEC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS	
		0	1	2	3	4	5	6	7	8	9			10
DEC	00-02	10.8			9.7						10.9	68.6	8.1	815
	03-05	8.5			10.3						12.5	68.7	8.3	825
	06-08	6.1			7.8						15.8	70.2	8.7	816
	09-11	4.6			7.8						22.6	65.0	8.8	824
	12-14	5.0			9.8						14.0	71.1	8.7	814
	15-17	5.8			9.9						20.8	63.5	8.5	816
	18-20	10.1			9.5						13.2	67.2	8.2	823
	21-23	12.8			8.7						11.6	67.0	8.0	820
TOTALS		8.7			9.2						15.2	67.7	8.4	6553



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SKY COVER

7.7930

SEATTLE/TACOMA IAP, WA

73-81

ALL

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
JAN	ALL	11.8			10.6						13.8	63.9	8.0	6567
FEB		8.1			10.2						17.8	63.8	8.3	5985
MAR		8.9			13.3						21.9	55.9	8.0	6597
APR		11.5			16.7						21.9	50.0	7.5	6383
MAY		12.8			19.2						22.3	45.7	7.2	6584
JUN		15.7			17.7						24.9	41.7	7.0	6375
JUL		30.1			17.6						19.0	33.4	5.6	6602
AUG		27.2			17.3						16.5	39.1	5.9	6577
SEP		27.9			16.7						17.9	37.6	5.9	6352
OCT		19.2			14.3						17.6	49.0	6.9	6527
NOV		9.4			11.5						15.2	63.9	8.1	6318
DEC		8.0			9.2						15.2	67.7	8.4	6553
TOTALS		15.9			14.5						18.7	51.0	7.2	77420

USAFETAC

FORM  
JUL 64

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

( PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:

- a. Daily maximum temperatures
- b. Daily minimum temperatures
- c. Daily mean temperatures

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:

- a. Extreme maximum temperature
- b. Extreme minimum temperature

NOTE: The following symbols are used in the extreme data blocks:

- (1) \* indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

Values for means and standard deviations do not include measurements for incomplete months.

Continued on Reverse



3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature.

This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

- a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma x$ ). The number of observations used in the computation for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.
5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
  - a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
  - b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.



2

## GLOBAL CLIMATOLOGY BRANCH

USAFETAC

ATC WEATHER SERVICE/MAC

717930 SEATTLE/TACOMA IAP, WA

STATION

STATION NAME

46-81

YEARS

## DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
45					.5	1.0	3.6	1.1	.5				.2
40				.1	1.8	4.0	12.0	9.6	3.4				.7
35				.2	4.7	12.4	28.7	21.3	9.2	.4			2.6
30				1.6	10.4	23.0	48.3	41.9	22.1	1.8			6.5
25		.1	.5	5.5	21.3	43.0	74.4	70.5	41.5	6.9	.4		12.5
20		1.5	2.4	13.1	40.8	69.5	94.3	92.2	69.0	19.4	1.4		22.2
15	.5	4.1	8.7	28.6	67.8	92.7	99.2	99.2	92.0	44.9	6.0	.7	33.8
10	4.5	15.6	26.9	58.2	91.7	98.8	99.9	99.9	98.9	78.3	23.6	5.4	45.6
5	20.6	41.4	58.0	89.4	99.3	100.0	100.0	100.0	99.9	94.5	59.6	28.8	58.7
0	46.3	76.4	90.0	99.3	100.0				100.0	99.6	85.2	59.3	74.4
-5	74.5	93.9	97.8	100.0						100.0	96.2	84.5	88.0
-10	89.8	98.8	99.6								99.2	95.9	95.5
-15	95.7	99.7	99.9								99.6	98.7	98.6
-20	98.9	99.9	100.0									99.4	99.5
-25	99.8	100.0											99.8
-30	100.0												100.0
-35													100.0
-40													100.0
-45													100.0
-50													100.0
-55													100.0
-60													100.0
-65													100.0
-70													100.0
-75													100.0
-80													100.0
-85													100.0
-90													100.0
-95													100.0
-100													100.0
MEAN	43.5	48.5	51.2	56.7	63.9	69.2	75.0	74.0	68.8	59.2	50.5	45.6	58.8
S.D.	7.147	6.221	6.022	6.727	7.809	7.772	7.506	7.400	7.479	6.389	6.222	6.259	12.775
TOTAL OBS.	1054	961	1054	1019	1054	1020	1054	1054	1020	1054	1020	1052	12416

USAFETAC FORM 0-21-5 (OL 1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



CLIMATOLOGY BRANCH  
USAFETAC

AIR WEATHER SERVICE/MAC

7 793 SEATTLE/TACOMA IAP, WA

STATION

STATION NAME

48-81

YEARS

## DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
45							.3	.7	.1				.1
40					.2	1.5	6.5	6.3	1.8				1.4
35				.3	2.8	16.9	44.8	49.5	19.8	2.3		.1	11.5
30	.5	.4	.8	2.8	20.4	66.8	91.3	90.8	67.1	20.2	2.8	1.1	30.6
25	5.8	8.3	7.0	15.9	63.9	95.7	99.5	99.5	91.3	53.9	21.8	8.7	47.8
20	23.4	31.6	34.6	58.5	91.1	99.9	100.0	100.0	98.3	86.7	52.3	32.8	67.6
15	49.1	65.1	70.7	91.1	99.3	100.0			100.0	97.3	78.5	61.5	84.5
10	61.4	75.8	82.6	97.1	99.8					98.7	84.6	73.4	89.5
5	76.3	89.2	93.1	99.5	99.9					99.7	93.2	87.0	94.8
0	88.4	97.1	99.0	100.0	100.0					100.0	98.5	95.8	98.2
-5	93.5	99.0	99.8								99.4	98.2	99.2
-10	97.6	99.5									99.6	99.1	99.6
-15	99.1	99.7	100.0								99.8	99.8	99.9
-20	99.9	99.9									100.0	100.0	100.0
-25	100.0	100.0											100.0
-30													
-35													
-40													
-45													
-50													
-55													
-60													
-65													
-70													
-75													
-80													
-85													
-90													
-95													
-100													
MEAN	33.6	36.5	37.2	40.4	45.8	51.0	54.1	54.3	50.9	45.3	39.3	36.2	43.7
S.D.	7.914	6.137	5.161	4.425	4.499	3.813	3.522	3.607	4.526	5.141	6.428	6.577	8.911
TOTAL OBS.	1054	961	1054	1019	1054	1020	1054	1054	1020	1054	1020	1052	12416

USAFETAC FORM 0-21-5 (OL 1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
SECRET  
AIR WEATHER SERVICE/MAC  
7793N SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

## DAILY TEMPERATURES

48-81

YEARS

MEAN

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1						.1	.5	.6	.1				.1
5					.3	.9	4.0	3.5	.3				.8
10				.1	1.5	5.7	16.6	12.8	3.6				3.4
15			.6	5.8	18.3	45.7	42.4	17.7	.9				11.1
20			3.4	18.1	49.7	87.2	85.8	51.5	7.5	.2			25.5
25	.4	1.1	2.0	10.6	47.5	87.9	99.0	99.3	86.5	33.0	3.4	.4	39.5
30	4.1	10.3	14.6	37.0	84.5	99.2	100.0	100.0	97.5	70.1	21.9	6.0	54.0
35	21.3	37.8	46.8	81.5	98.9	100.0			99.8	93.2	58.1	30.1	72.4
40	49.1	72.2	85.7	98.9	100.0				100.0	99.3	82.9	60.6	87.4
45	75.9	92.7	96.3	100.0						100.0	95.2	87.6	95.6
50	89.8	98.0	99.5								98.8	95.8	98.5
55	94.6	99.5	99.8								99.6	98.6	99.3
60	98.1	99.6	100.0									99.3	99.7
65	99.6	99.9									99.8	99.8	99.9
70	100.0	100.0									100.0	100.0	100.0
75													
80													
85													
90													
95													
100													
MEAN	38.7	42.5	44.2	48.6	54.9	60.1	64.7	64.2	59.9	52.2	44.9	40.9	51.3
S. D.	7.348	5.787	5.068	4.871	5.537	5.269	4.934	4.771	5.142	5.096	6.019	6.195	10.509
TOTAL OBS.	1054	961	1054	1019	1054	1020	1054	1054	1020	1054	1020	1052	12416

**USAFETAC** FORM 0-21-5 (OL 1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



U.S. DEPARTMENT OF COMMERCE  
BUREAU OF MARINE SERVICE

# EXTREME VALUES

MAXIMUM TEMPERATURE

FROM DAILY OBSERVATIONS

STATION ATI ATACOMA TAP, VA  
STATION NAME

42-51  
YEARS

YEARS

AND IN DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1	87	73	66	67	67	67	68	81	81	71	65	47	68
2	86	73	73	81	84	84	86	92	87	71	74	53	77
3	86	74	77	79	84	86	86	86	86	71	64	53	76
4	87	77	81	81	82	85	85	85	87	81	57	49	76
5	88	75	85	85	75	89	92	85	85	75	64	59	77
6	88	82	82	85	85	71	85	85	85	75	61	51	78
7	88	82	82	85	85	71	85	85	85	75	61	51	78
8	88	82	82	85	85	71	85	85	85	75	61	51	78
9	88	82	82	85	85	71	85	85	85	75	61	51	78
10	88	82	82	85	85	71	85	85	85	75	61	51	78
11	88	82	82	85	85	71	85	85	85	75	61	51	78
12	88	82	82	85	85	71	85	85	85	75	61	51	78
13	88	82	82	85	85	71	85	85	85	75	61	51	78
14	88	82	82	85	85	71	85	85	85	75	61	51	78
15	88	82	82	85	85	71	85	85	85	75	61	51	78
16	88	82	82	85	85	71	85	85	85	75	61	51	78
17	88	82	82	85	85	71	85	85	85	75	61	51	78
18	88	82	82	85	85	71	85	85	85	75	61	51	78
19	88	82	82	85	85	71	85	85	85	75	61	51	78
20	88	82	82	85	85	71	85	85	85	75	61	51	78
21	88	82	82	85	85	71	85	85	85	75	61	51	78
22	88	82	82	85	85	71	85	85	85	75	61	51	78
23	88	82	82	85	85	71	85	85	85	75	61	51	78
24	88	82	82	85	85	71	85	85	85	75	61	51	78
25	88	82	82	85	85	71	85	85	85	75	61	51	78
26	88	82	82	85	85	71	85	85	85	75	61	51	78
27	88	82	82	85	85	71	85	85	85	75	61	51	78
28	88	82	82	85	85	71	85	85	85	75	61	51	78
29	88	82	82	85	85	71	85	85	85	75	61	51	78
30	88	82	82	85	85	71	85	85	85	75	61	51	78
31	88	82	82	85	85	71	85	85	85	75	61	51	78
32	88	82	82	85	85	71	85	85	85	75	61	51	78
33	88	82	82	85	85	71	85	85	85	75	61	51	78
34	88	82	82	85	85	71	85	85	85	75	61	51	78
35	88	82	82	85	85	71	85	85	85	75	61	51	78
36	88	82	82	85	85	71	85	85	85	75	61	51	78
37	88	82	82	85	85	71	85	85	85	75	61	51	78
38	88	82	82	85	85	71	85	85	85	75	61	51	78
39	88	82	82	85	85	71	85	85	85	75	61	51	78
40	88	82	82	85	85	71	85	85	85	75	61	51	78
41	88	82	82	85	85	71	85	85	85	75	61	51	78
42	88	82	82	85	85	71	85	85	85	75	61	51	78
43	88	82	82	85	85	71	85	85	85	75	61	51	78
44	88	82	82	85	85	71	85	85	85	75	61	51	78
45	88	82	82	85	85	71	85	85	85	75	61	51	78
46	88	82	82	85	85	71	85	85	85	75	61	51	78
47	88	82	82	85	85	71	85	85	85	75	61	51	78
48	88	82	82	85	85	71	85	85	85	75	61	51	78
49	88	82	82	85	85	71	85	85	85	75	61	51	78
50	88	82	82	85	85	71	85	85	85	75	61	51	78
51	88	82	82	85	85	71	85	85	85	75	61	51	78
52	88	82	82	85	85	71	85	85	85	75	61	51	78
53	88	82	82	85	85	71	85	85	85	75	61	51	78
54	88	82	82	85	85	71	85	85	85	75	61	51	78
55	88	82	82	85	85	71	85	85	85	75	61	51	78
56	88	82	82	85	85	71	85	85	85	75	61	51	78
57	88	82	82	85	85	71	85	85	85	75	61	51	78
58	88	82	82	85	85	71	85	85	85	75	61	51	78
59	88	82	82	85	85	71	85	85	85	75	61	51	78
60	88	82	82	85	85	71	85	85	85	75	61	51	78
61	88	82	82	85	85	71	85	85	85	75	61	51	78
62	88	82	82	85	85	71	85	85	85	75	61	51	78
63	88	82	82	85	85	71	85	85	85	75	61	51	78
64	88	82	82	85	85	71	85	85	85	75	61	51	78
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74	88	82	82	85	85	71	85	85	85	75	61	51	78
75	88	82	82	85	85	71	85	85	85	75	61	51	78
76	88	82	82	85	85	71	85	85	85	75	61	51	78
77	88	82	82	85	85	71	85	85	85	75	61	51	78
78	88	82	82	85	85	71	85	85	85	75	61	51	78
79	88	82	82	85	85	71	85	85	85	75	61	51	78
80	88	82	82	85	85	71	85	85	85	75	61	51	78
81	88	82	82	85	85	71	85	85	85	75	61	51	78
82	88	82	82	85	85	71	85	85	85	75	61	51	78
83	88	82	82	85	85	71	85	85	85	75	61	51	78
84	88	82	82	85	85	71	85	85	85	75	61	51	78
85	88	82	82	85	85	71	85	85	85	75	61	51	78
86	88	82	82	85	85	71	85	85	85	75	61	51	78
87	88	82	82	85	85	71	85	85	85	75	61	51	78
88	88	82	82	85	85	71	85	85	85	75	61	51	78
89	88	82	82	85	85	71	85	85	85	75	61	51	78
90	88	82	82	85	85	71	85	85	85	75	61	51	78
91	88	82	82	85	85	71	85	85	85	75	61	51	78
92	88	82	82	85	85	71	85	85	85	75	61	51	78
93	88	82	82	85	85	71	85	85	85	75	61	51	78
94	88	82	82	85	85	71	85	85	85	75	61	51	78
95	88	82	82	85	85	71	85	85	85	75	61	51	78
96	88	82	82	85	85	71	85	85	85	75	61	51	78
97	88	82	82	85	85	71	85	85	85	75	61	51	78
98	88	82	82	85	85	71	85	85	85	75	61	51	78
99	88	82	82	85	85	71	85	85	85	75	61	51	78
100	88	82	82	85	85	71	85	85	85	75	61	51	78
MEAN													
S. D.													
TOTAL OBS.													

NOTES \* (BASED ON LESS THAN FULL MONTHS)

1210 WS FORM 0.88-3 (OLI)

\* (AT LEAST ONE DAY LESS THAN 24 OBS)



# (AT LEAST ONE DAY LESS THAN 24 CBS)



2

STATION: WILMINGTON, ARANCH

FROM SERVICE / 740

## EXTREME VALUES

MINIMUM TEMPERATURE

FROM DAILY OBSERVATIONS

STATION: WILMINGTON, ARANCH

1974-75

YEARS

WILMINGTON, ARANCH

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1	30	25	21	28	35	40	44	46	37	32	27	20	35
2	11	12	7	34	36	42	43	48	41	18	35	17	12
3	1	1	27	1	34	43	47	44	36	30	25	21	9
4	14	24	24	19	33	41	47	44	4	32	23	18	11
5	1	26	24	19	33	36	45	44	39	15	17	27	10
6	24	27	28	9	35	41	43	46	42	32	29	31	25
7	11	26	24	21	28	42	43	45	37	19	26	27	16
8	24	21	11	21	24	43	43	44	37	27	6	28	6
9	17	13	29	21	37	42	46	46	41	32	26	20	17
10	2	1	33	35	44	47	43	46	42	35	27	22	9
11	22	31	26	35	39	41	50	52	41	27	25	17	25
12	14	29	21	24	27	45	48	46	44	34	27	25	14
13	27	25	24	24	37	47	46	45	39	27	27	21	24
14	1	34	23	25	38	41	51	51	39	27	23	21	27
15	17	19	22	26	33	41	48	47	44	23	21	27	13
16	11	32	29	21	36	46	47	46	41	27	26	21	12
17	20	25	21	33	36	46	51	47	44	27	1	17	17
18	14	32	27	34	36	46	49	49	42	1	12	15	25
19	21	30	29	25	37	46	51	46	45	27	31	26	27
20	24	32	28	23	42	42	52	52	47	41	31	26	25
21	24	31	22	23	41	45	51	52	45	41	35	26	6
22	11	31	32	35	36	49	51	46	43	25	27	23	15
23	21	33	29	34	38	47	51	52	41	31	27	27	27
24	21	24	23	33	41	44	47	53	43	31	33	25	23
25	17	19	21	34	41	49	46	50	27	34	23	17	17
26	11	29	21	34	43	44	45	46	46	41	21	25	15
27	15	26	27	37	29	45	49	47	44	25	27	24	16
28	21	27	26	29	37	43	50	51	47	35	22	27	22
29	27	24	24	1	42	41	51	52	51	35	29	27	24
30	24	32	35	27	41	44	52	51	43	41	21	31	21
MEAN													
S. D.													
TOTAL OBS.													

NOTES \* (BASED ON LESS THAN FULL MONTHS)

1210 WS FORM 0-88-3 (OL1)

JUL 64

LAST ONE DAY LESS THAN FULL MONTH



## EXTREME VALUES

## APPENDIX

FROM DAILY OBSERVATIONS

STATION

STATION NAME

YEARS

ALL INFORMATION CONTAINED HEREIN

[illegible]

NOTES \* (BASED ON LESS THAN FULL MONTHS)

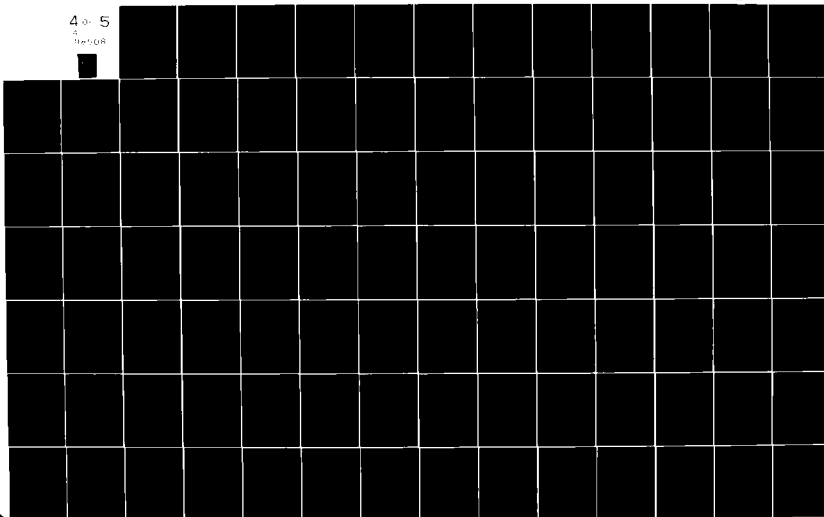
1210 WS FORM 0-88-5 (OLI)  
HLL 44

\* AT LEAST ONE DAY LESS THAN 24 HRS)



AD-A118 508 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
SEATTLE TACOMA IAP, WASHINGTON. REVISED UNIFORM SUMMARY OF SURF--ETC (11)  
JUN 82  
UNCLASSIFIED USAFETAC/DS-82/038 SBI-AD-F850 197 NL

4-5  
A  
REFUR





GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

7 793 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81

YEARS

JAN  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point						
57				.2	.1	.1												4	4							
55		.2				.5												6	6							
53			.9	.1		.1												9	9	2	1					
51		1.1	.5															13	13	4	1					
49		1.6	1.2	.6	.6	.5	.1											36	36	22	3					
47		3.0	1.8	.1	.5	.1												46	46	16	23					
45		3.5	2.1	.6		.1												52	53	42	20					
43		6.8	2.2	.4	.1	.2												80	80	64	29					
41	.2	5.2	4.1	.7														85	85	81	40					
39	.5	6.3	4.9	.7	.7	.2												110	110	78	83					
37	1.0	5.6	3.0	.4	.2	.1	.1											86	86	99	65					
35	.7	5.0	2.3	.2	.4	1.0	.1											80	80	96	74					
33	.7	2.7	2.1	.5	.9	.9												63	63	76	79					
31		4.7	1.5	1.1	.1													55	55	54	96					
29	.6	2.1	.7	.9	.5													39	39	55	64					
27	.2	.5	.6	.6	.4													19	20	33	45					
25		.2	.6	1.3														15	15	37	35					
23			.5	.2														6	6	16	27					
21		.1	.4	1.1														13	13	15	16					
19				.4														3	3	14	12					
17																				8	5					
15																				8	9					
13																					5					
11																					19					
9																					7					
7																					7					
5																					2					
3																					13					
1																					11					
-1																					9					
-3																					6					
-5																					5					
-7																					6					
-9																					3					
Element (X)	Σ X'		Σ X		X		°X		No. Obs.		Mean No. of Hours with Temperature															
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total			
Dry Bulb																										
Wet Bulb																										
Dew Point																										

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JAN 64



## PSYCHROMETRIC SUMMARY

YEARS

JAN

PAGE 2      0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
TAL	4.0	4.8	2.2	9.1	9.9	4.5	3.9	.4											82C	82U	82D			
	</																							



## PSYCHROMETRIC SUMMARY

73-81

YEARS

JAN  
MONTH

PAGE 1

0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
57					.1													1	1													
55		.1	.4	.1		.4												8	8													
53			.6															5	5	1												
51		.8	1.0		.6													20	20	6	1											
49		1.6	.8	.5	.4	.1												28	28	18	5											
47		3.5	1.5		.4	.1												45	45	17	20											
45		3.5	1.6	.2	.1	.2												47	47	49	24											
43		5.8	1.8	.1	.1	.2												67	67	55	34											
41		5.9	2.9	.2	.5													79	79	71	35											
39	.7	7.5	4.0	.1	.2	.4												107	107	77	81											
37	1.1	5.2	2.9	.1			.1											78	78	95	77											
35	1.0	6.2	3.0		.4	1.2	.1											98	98	88	68											
33	.2	3.7	1.5		.7	.6												56	56	86	61											
31	.5	4.4	.7	.7	.4													55	55	60	95											
29	.5	5.0	.7	.8	.2													60	60	40	74											
27		2.1	.6	.6														27	27	58	45											
25		.5	.2	.8														13	13	39	33											
23			.8	.5														11	11	19	33											
21		.1	.7	.5														11	11	9	27											
19		.1	.4	.6														9	9	15	12											
17		.1	.1															2	2	12	5											
15																				11	9											
13																				1	3											
11																					9											
9																					10											
7																					11											
5																					8											
3																					15											
1																					11											
-1																					6											
-3																					1											
-5																					5											
-7																					6											
-9																					3											
Element (X)	Σ x <sup>2</sup>		Σ x		$\bar{x}$	$\sigma_x$	No. Obs.		Mean No. of Hours with Temperature																							
Rel. Hum.									± 0 F		± 32 F		± 67 F		± 73 F		± 80 F		± 93 F		Total											
Dry Bulb																																
Wet Bulb																																
Dew Point																																



## PSYCHROMETRIC SUMMARY

73-81

JAN  
MONTH

PAGE 2      0300-0500  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
57			.1															1	1					
5 / 55						.4												3	3					
4 / 53		.7	.6		.2													13	13	1				
2 / 51		.6	1.1	.4	.2													19	19	7	2			
5 / 49		1.2	1.2	.5	.4													27	27	14	7			
1 / 47		2.8	1.7	.5	.4													44	44	19	15			
4 / 45		3.4	.5	.2	.1	.4												38	38	51	20			
4 / 43		5.7	1.7	.1	.2													63	63	43	36			
2 / 41		5.7	1.8	.1	.4													65	65	69	36			
4 / 39	1.7	5.8	3.2	.2	.4	.4												95	95	79	68			
3 / 37	1.4	7.0	3.2	.4		.1												98	99	74	87			
7 / 35	.7	7.6	2.5	.1	1.0	.9												104	104	94	63			
3 / 33	.5	2.6	2.1		.5	.5												50	50	101	62			
2 / 31	1.1	4.3	1.2	.5	.2													59	59	52	96			
6 / 29	.2	2.6	1.2	.9														40	40	45	60			
2 / 27	.2	2.2	.9	.9	.1													35	35	48	45			
1 / 25	.2	1.4	.6	1.0														26	26	35	38			
2 / 23	.1		.4	1.1														13	13	29	25			
2 / 21			.2	.2														4	4	14	26			
1 / 19		.2	.7	.6														13	13	11	21			
1 / 17		.1																1	1	13	7			
1 / 15		.1																1	1	12	8			
1 / 13																				1	6			
1 / 11																					8			
10 / 9																					10			
1 / 7																					17			
1 / 5																					8			
1 / 3																					10			
1 / 1																					10			
1 / -1																					5			
-1 / -3																					3			
-1 / -5																					5			
-1 / -7																					5			
-1 / -9																					3			
Element (X)	Σ X'	Σ X	Σ	σ <sub>n</sub>	No. Obs.	Mean No. of Hours with Temperature																		
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 72 F	≥ 80 F	≥ 93 F	Total												
Dry Bulb																								
Wet Bulb																								
Dew Point																								



## PSYCHROMETRIC SUMMARY

77930	SEATTLE/TACOMA IAP, WA
STATION	STATION NAME

73-61

YEARS

JAN  
MONTH

PAGE 2

0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	> 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
T T L	5.2	5.4	2.2	5.1	7.8	4.2	2.6												812	813	812			



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

7 793 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81  
YEARS

JAN  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30		Dry Bulb	Wet Bulb	Dew Point
/ 59							.1										1	1		
/ 57					.1												1	1		
5 / 55			.4	.1		.4											7	7		
4 / 53		.2	1.0	.5	.1												15	15		
/ 51		1.1	1.2	.7	.2	.1											28	28	7	
5 / 49		1.5	2.7	.2	.0		.1										38	38	28	5
/ 47		3.3	1.8	.2													44	44	21	23
4 / 45		2.7	2.6	.6		.2	.1										51	51	56	24
4 / 43		5.9	2.6	.4	.1	.2											75	75	54	39
/ 41	.1	5.2	3.4	1.3	.1	.1	.2	.1									88	88	73	43
4 / 39	1.3	6.3	3.8	.2		.2	.1										99	99	90	73
3 / 37	1.1	6.2	4.9	.9	.2	1.0	.1										118	118	92	88
/ 35	.4	3.7	2.6	.7	.7	.6											71	71	94	56
3 / 33	.4	3.4	1.1	.5	.2												46	46	80	89
2 / 31	.4	2.4	2.1	.6	1.1												54	55	56	81
/ 29	.4	1.8	.7	.6	.6												34	34	41	71
2 / 27		1.1	.6	.9	.5												25	25	49	39
/ 25		.1	.2	1.0	.4												14	15	25	30
2 / 23			.2	.2													4	4	17	14
2 / 21			.2	.2													4	4	14	19
/ 19		.1	.2														3	3	14	21
/ 17																			8	7
1 / 15																			1	9
/ 13																				7
1 / 11																				13
/ 9																				10
/ 7																				13
/ 5																				8
/ 3																				9
/ 1																				13
/ -1																				4
- / -3																				6
- / -5																				3
- / -7																				2
Element (X)	$\Sigma X'$		$\Sigma X$		$\Sigma$		$\sigma_n$		No. Obs.		Mean No. of Hours with Temperature						Total			
Rel. Hum.											$\pm 0 F$	$\pm 32 F$	$\pm 67 F$	$\pm 73 F$	$\pm 80 F$	$\pm 93 F$				
Dry Bulb																				
Wet Bulb																				
Dew Point																				

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
USAFETAC



## PSYCHROMETRIC SUMMARY

YEARS

JAY  
MONTH

0-26-5 (U L A) REVERSED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**USAFETAC**



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

70793 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81  
YEARS

JAN  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point															
4 / 63							.2											2													2				
5 / 61						.1	.1	.1										3													3				
6 / 59						.1												1													1				
7 / 57						.2	.4											5													5				
8 / 55				.1	.6	.1												7													7				
9 / 53		.4	.7	1.0	.4	.6												25													25	2			
10 / 51		2.2	2.1	1.2	.4		.1											49													49	9			
11 / 49		1.2	3.3	1.0	.5	.5	.4											56													56	41	4		
12 / 47		2.9	3.1	1.3	.4	.1	.2											66													66	42	31		
13 / 45		3.4	2.1	3.3	.2	.1	.1	.5										80													80	70	35		
14 / 43	.1	5.3	5.6	2.2	.2	.2	.1	.2										115													115	71	38		
15 / 41		3.9	5.1	2.9	.1	.5	.7											109													109	86	77		
16 / 39	.9	4.2	4.6	1.7	.5	.5	.1											102													102	111	77		
17 / 37	.5	2.4	2.2	1.6	1.2	.6												70													70	101	73		
18 / 35	.1	1.5	1.1	1.0	.6	.2												37													37	78	70		
19 / 33		1.8	.5	.5	1.2	.4												36													36	53	81		
20 / 31		.9	.5	.6	.7	.1												23													23	41	74		
21 / 29		.6	.4		1.2													18													18	44	56		
22 / 27	.4		.6	.5	.2													14													14	25	37		
23 / 25																																	18	20	
24 / 23																																	11	10	
25 / 21																																	14	15	
26 / 19																																		1	
27 / 17																																		13	
28 / 15																																		9	
29 / 13																																		11	
30 / 11																																		16	
31 / 9																																		6	
32 / 7																																		8	
33 / 5																																		5	
34 / 3																																		12	
35 / 1																																		5	
36 / -1																																		6	
37 / -3																																		8	
Element (X)	$\Sigma X^1$			$\Sigma X$			$\bar{X}$			$\sigma_x$			No. Obs.			Mean No. of Hours with Temperature							Total												
Rel. Hum.																$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$														
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			



## PSYCHROMETRIC SUMMARY

7793	SEATTLE/TACOMA IAP, WA
STATION	STATION NAME

73-61

JAN  
MONTH

PAGE 7

1200-1400  
HOURS (L. S. T.)

[illegible]

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**0-26-5 (OLA)**

FORM 4

**USAFETAC**



## PSYCHROMETRIC SUMMARY

JAN  
MONTH

[illegible]



## PSYCHROMETRIC SUMMARY

7 703	SEATTLE/TACOMA IAP, WA
STATION	STATION NAME

73-61

YEARS

JAN  
MONTH

PAGE 2 1500-1700  
HOURS (L. S. T.)

[illegible]

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

ACR-44  
JUN 84

**USAFETAC**



## PSYCHROMETRIC SUMMARY

7 703	SEATTLE/TACOMA IAP, WA
STATION	STATION NAME

73-81

YEARS

JAN  
MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

JAN  
MONTH

PAGE 2 1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
TOTAL	3.1	37.0	38.8	10.9	6.2	3.4	.7												828	837	828				



## PSYCHROMETRIC SUMMARY

YEARS

JAN  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																											TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point										
59					.1													2	2												
57					.1													1	1												
55				.2	.1	.7												9	9												
53		.1	.4															4	4												
51		1.3	.6			.5	.1											21	21	5											
49		1.2	1.6	.7	1.0	.5												41	41	21	6										
47		2.5	3.2	.5	.1													52	52	19	16										
45		3.4	2.9	.8	.4	.1												63	63	42	19										
43		5.5	3.4	.5	.2	.4												82	82	80	35										
41	.4	6.7	3.8	.8	.1	.1												93	98	84	54										
39	.2	5.8	5.9	1.0	.5													111	111	90	62										
37	.5	5.3	4.6	.4	.6	.4	.4											100	100	105	92										
35	.6	3.6	1.6	.7	.5	.4												61	61	100	66										
33	.6	2.4	1.3	1.3	.5	.6												56	56	65	94										
31		2.3	1.9	1.3	.7													52	52	49	99										
29	.5	.8	1.2	.7	.5													31	31	48	55										
27	.4	.1	.6	.6	.5													18	18	35	35										
25			.1	1.1														10	10	28	30										
23			.1	.2														3	3	20	18										
21			.4	.8														10	10	12	17										
19																				10	16										
17																				12	9										
15																					15										
13																					5										
11																					13										
9																					15										
7																					2										
5																					3										
3																					9										
1																					8										
-1																					12										
-3																					7										
-5																					6										
-7																					2										
Element (X)	Σ X <sup>2</sup>				Σ X				X̄				σ <sub>x</sub>				No. Obs.				Mean No. of Hours with Temperature										
Rel. Hum.																					≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total				
Dry Bulb																															
Wet Bulb																															
Dew Point																															

0-26-5 (QLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC



## PSYCHROMETRIC SUMMARY

YEARS

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																											TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point										
72.4	1.2	3.3	6.1	2.0	5.9	3.6	.5												825		825	825									
Element (X)	X <sub>1</sub>	X <sub>2</sub>	X <sub>3</sub>	X <sub>4</sub>	No. Obs.	Mean No. of Hours with Temperature						Total																			
Rel. Hum.	4663574	67272	73.1	17.773	825	≤ 0 F	≤ 32 F	≤ 47 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																			
Dry Bulb	1336238	32742	39.7	6.683	825		14.0					93																			
Wet Bulb	1136173	30.60	36.4	7.045	825		24.1					93																			
Dew Point	894141	25525	30.9	11.257	825	3.0	42.9					93																			



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

7 793 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81  
YEARS

JAN  
MONTH

PAGE 1

ALL  
HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point							
4 / 5																			4	4							
4 / 6																			4	4							
4 / 59						.1	.0	.0											8	8							
4 / 57				.1	.1	.1	.2	.2											23	23							
5 / 55		.1	.1	.2	.1	.3	.1												53	53							
4 / 53		.3	.6	.3	.1	.1													96	96	6						
4 / 51		1.3	1.2	.3	.3	.1	.1												224	224	55						
5 / 4		1.3	1.9	.7	.6	.2	.1												311	311	202						
4 / 47		3.0	2.5	.6	.3	.1	.0												431	431	199						
4 / 45		3.8	2.5	1.1	.2	.2	.0	.1											521	522	439						
4 / 43	.0	5.6	3.4	.8	.2	.2	.0	.0											680	680	539						
2 / 41	.2	5.4	3.7	1.2	.3	.2	.0	.0											737	737	640						
4 / 39	.9	5.4	4.8	.7	.4	.2	.1												834	835	746						
3 / 37	.8	4.9	3.3	.7	.4	.4	.1												690	691	752						
1 / 35	.5	3.9	2.2	.7	.7	.7	.0												569	569	723						
3 / 33	.3	2.4	1.5	.6	.6	.5													392	392	566						
2 / 31	.2	2.6	1.2	.8	.6	.0													353	354	399						
1 / 29	.4	1.7	.8	.6	.6														263	263	363						
2 / 27	.2	.8	.6	.7	.3														171	173	305						
1 / 25	.0	.3	.3	.7	.0														90	91	220						
2 / 23	.0		.3	.3															40	40	138						
2 / 21		.0	.3	.4															48	48	115						
1 / 19		.1	.2	.2															28	28	72						
1 / 17		.1	.0																3	3	61						
1 / 15		.0																	1	1	32						
1 / 13																					2						
1 / 11																											
1 / 9																											
1 / 7																											
1 / 5																											
1 / 3																											
1 / 1																											
1 / -1																											
1 / -3																											
Element (X)	Σ X <sup>2</sup>				Σ X				X̄				σ <sub>x</sub>				No. Obs.				Mean No. of Hours with Temperature						
Rel. Hum.																					± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total
Dry Bulb																											
Wet Bulb																											
Dew Point																											

USAFETAC FORM 0-26-5 (OL A) REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

JAN  
MONTH

ALL

HOURS (L, S, T)

[illegible]

**USAFETAC** FORM 0.26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 64



## PSYCHROMETRIC SUMMARY

7703 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81

YEARS

FEB  
MONTH

PAGE 1 7000-0200  
HOURS (L. S. T.)

[illegible]



7793	SEATTLE/TACOMA IAP, WA
STATION	STATION NAME

73-81

## PSYCHROMETRIC SUMMARY

FEB

PAGE 1      0370-0500  
HOURS (L. S. T.)

[illegible]



USAFETAC FORM 0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

73-21

YEARS

FEB  
MONTH

PAGE 1 0900-1100

[illegible]

**USAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

YEARS

FE9  
MONTH

PAGE 1      1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
57 / 65					.1													1	1																
47 / 63						.1	.1		.4									5	5																
7 / 61					.1		.1											2	2																
7 / 59				.3		.1	.3											5	5																
7 / 57			.1	.8	.7		.9											19	19	1															
5 / 55		.8	.7	1.1	1.8	1.8	.7	.1										51	51	1															
47 / 53		.1	1.8	2.0	1.5	.4												43	43	13	3														
27 / 51		.7	4.6	2.7	2.2	.4		.3										80	80	17	4														
57 / 49		2.0	3.5	2.8	1.6	.4	.4											90	81	46	8														
7 / 47		3.0	3.2	4.3	1.9	.9	.4											102	102	93	30														
47 / 45		3.5	6.1	4.3	.8	.5	.1											114	115	87	52														
47 / 43		.9	6.9	3.0	.7	.3	.3											89	90	101	50														
27 / 41		2.6	2.8	1.3	.9	.4	.3											62	62	108	64														
47 / 39	.1	3.1	2.2	.5	.5													48	48	116	64														
37 / 37	.8	1.6	.1	.1	.1	.3												23	23	81	108														
7 / 35			.1	.4		.1												5	5	35	109														
37 / 33	.1	.4	.4	.1	.1													9	9	15	85														
27 / 31	.1		.1	.1														3	3	14	66														
7 / 29																				6	21														
7 / 27																				4	14														
7 / 25																				3	13														
27 / 23																					7														
27 / 21																					10														
7 / 19																					12														
7 / 17																					8														
7 / 15																					2														
7 / 13																					2														
7 / 11																					1														
7 / 9																					2														
7 / 7																					1														
7 / 5																					4														
7 / 3																					1														
TOTAL	1.2	18.6	32.7	24.0	13.1	6.7	2.7	.4	.4									741	744	741	741														
Element (X)	Σx <sup>2</sup>	Σx	Σ	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature																												
Rel. Hum.	3597445	50371	68.0	15.306	741	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total																							
Dry Bulb	1676405	35065	47.1	5.657	744		.3					84																							
Wet Bulb	1347912	31380	42.3	5.071	741		3.1					84																							
Dew Point	1022923	26973	36.4	7.451	741		18.6					84																							

**USAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64



## PSYCHROMETRIC SUMMARY

FEB

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
6 / 67												.1						1	1																
6 / 65								.1				.1						3	3																
4 / 63						.1	.1	.1			.1							4	4																
2 / 61							.1											1	1																
/ 59				.5	.1	.3												7	7																
/ 57				.5	.4	.7	.3											14	14																
5 / 55		.5	.4	.8	2.3	1.2	.5											43	43																
4 / 53		.4	2.4	1.3	2.0	.5	.1											51	51	14	1														
7 / 51		1.6	3.6	1.5	2.9	.7	.1	.4										81	81	14	4														
5 / 49		3.8	2.5	3.6	1.9	.5	.1	.1										94	94	49	8														
4 / 47		1.7	3.1	4.3	2.1	.7	.1											90	90	90	45														
4 / 45		2.9	6.7	4.6	.7	.3												113	113	84	41														
4 / 43		2.9	5.9	2.4	.7	.9	.3											98	98	102	39														
2 / 41		2.5	5.2	1.2	.8	.4	.3											78	78	126	65														
4 / 39	.1	1.1	1.2	.4	.8	.4	.3											32	32	118	72														
3 / 37	.3	1.1	.5		.1	.1												16	16	66	95														
/ 35	.5	.5	.4															11	11	35	119														
3 / 33		.5	.1															5	5	17	90														
2 / 31		.3	.1	.1														4	4	18	58														
/ 29																				9	32														
7 / 27																				3	8														
/ 25																				1	14														
2 / 23																					6														
2 / 21																					5														
/ 19																					16														
/ 17																					9														
1 / 15																					3														
/ 13																					6														
/ 11																					4														
/ 9																					2														
/ 7																					1														
/ 5																					1														
/ 3																					1														
/ 1																					2														
Element (X)	Σ H		Σ L		Σ		Σ <sub>N</sub>		No. Obs.		Mean No. of Hours with Temperature																								
Rel. Hum.											≤ 0 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		≤ 93 F		Total												
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			



## PSYCHROMETRIC SUMMARY

YEARS

FEB  
MONTH

PAGE 2 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL										
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point								
77	.92	.93	.94	.95	.96	.97	.98	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.28	1.29	1.30	1.31	746	746	746	746

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3583704	50306	67.4	15.997	746	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	
Dry Bulb	1683131	35191	47.2	5.565	746		.5	.1				84
Wet Bulb	1353628	31558	42.3	5.001	746		3.5					84
Dew Point	1018892	26950	36.1	7.797	746		18.8					84



## PSYCHROMETRIC SUMMARY

YEARS

FEB  
MONTH

PAGE 1 187C-2000  
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.S.	W.B.	Dry Bulb	Wet Bulb	Dew Point													
9							.7				.3								4	4															
57							.3												2	2															
55				.3	.1		.4												6	6															
53		.3	.5	.8	.7		.7												22	22															
51		1.3	3.4	.9	1.6		.5												58	58	5														
49		3.6	4.2	1.1	1.2		.8	.1											82	82	22	6													
47		3.2	3.8	2.1	.3			.1											69	69	69	25													
45		4.0	5.9	2.3	.1			.3											94	94	74	46													
43		5.7	7.1	1.2	.4		.5												106	107	91	43													
41		3.5	6.8	1.3	1.5		.1												99	99	118	61													
39	.1	3.5	6.6	.5	.5		.1												85	85	154	62													
37	.7	4.7	1.2	1.2	.5		.3												64	64	98	91													
35	.5	2.7	.5	.5	.7		.1												33	33	83	99													
33	.4	.8	.3		.3		.1												14	14	42	98													
31		.1	.1	.1															3	3	24	98													
29			.5																4	4	9	35													
27																					9	7													
25																					7	12													
23																						7													
21																						9													
19																						19													
17																						4													
15																						4													
13																						6													
11																						5													
9																						3													
7																						2													
5																						1													
3																						1													
1																						1													
TOTAL	1.7	32.1	47.4	12.3	8.3	4.3	.5				.3								745	746	745	745													

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4132253	54353	73.0	14.974	745	$\geq 0$ F	$\geq 32$ F	$\geq 67$ F	$\geq 73$ F	$\geq 80$ F	$\geq 93$ F	Total
Dry Bulb	1465838	32828	44.0	5.338	746		.8					84
Wet Bulb	1227282	29998	40.3	5.105	745		5.5					84
Dew Point	971438	26294	35.3	7.639	745	.1	24.1					84

0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**WFOU**

**USAFETAC**



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

7 293 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81

YEARS

FEB  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point			
10										.1								1	1					
57								.4										3	3					
55			.4			.1	.1											5	5					
53			.4	.4	.4	.1												17	17	3	2			
51			.8	1.2	.7	2.	.5											39	39	5	1			
45			3.4	3.4	.5	.5	.4											61	61	9	6			
47			5.7	2.7	1.1	1.3												75	75	58	21			
45			5.4	4.2	.9	1.2	.1	.4										91	91	67	34			
43			6.8	5.4	.5	.4												98	98	84	48			
41			4.6	7.2	1.1	1.6												108	108	170	62			
39	.1	4.7	5.2	.7	.3	.4												85	85	95	66			
37	.8	6.8	2.7	.3	.4													82	82	117	73			
35	.4	3.4	1.2	.5	.3													43	44	87	92			
33	.4	1.6	.5	.4		.1												27	27	65	126			
31	.1	.1	.5	.7	.4	.1												15	15	23	71			
29	.1	.1	.1															3	3	14	51			
27																				10	23			
25																				5	14			
23																				4	10			
21																					17			
19																					3			
17																					3			
15																					0			
13																					2			
11																					6			
9																					1			
7																					2			
5																					7			
TOTAL	2.5	43.4	34.7	7.8	8.6	2.4	.4			.1									746	747		746		

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1

ALL

HOURS 11 5 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																
6 / 67																		1	1																		
6 / 65																		4	4																		
4 / 63																		9	9																		
4 / 61																		3	3																		
7 / 59																		22	22																		
7 / 57																		53	53	1																	
5 / 55																		121	121	2																	
4 / 53																		169	169	41	9																
27 / 51																		336	336	60	25																
5 / 49																		519	521	176	47																
7 / 47																		574	574	461	178																
4 / 45																		768	769	571	283																
4 / 43																		750	752	674	387																
2 / 41																		752	753	783	452																
4 / 39																		607	608	860	550																
3 / 37																		477	477	769	703																
7 / 35																		370	371	596	799																
3 / 33																		240	240	450	826																
7 / 31																		130	130	238	667																
7 / 29																		47	47	136	315																
7 / 27																		18	18	70	147																
7 / 25																		6	6	48	133																
7 / 23																				34	65																
2 / 21																				6	83																
7 / 19																					76																
7 / 17																					43																
7 / 15																					40																
7 / 13																					42																
7 / 11																					41																
7 / 9																					26																
7 / 7																					13																
7 / 5																					8																
7 / 3																					8																
7 / 1																					4																
Element (X)	Σ X <sup>4</sup>				Σ X <sup>3</sup>				Σ X <sup>2</sup>				Σ X				No. Obs.				Mean No. of Hours with Temperature																
Rel. Hum.																					≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total										
Dry Bulb																																					
Wet Bulb																																					
Dew Point																																					

**USAFETAC**  
FORM  
AF 24  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

73-61

YEARS

FFA

MONTE

PAGE 2

ALL

**HOURS (L, S, T)**

[illegible]

USAFETAC FORM 0-26.5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

MAR  
MONTH

PAGE 1      0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
5 / 55			.1		.2		.1	.2										6	6													
4 / 53		.1	.2	.1	.1		.4	.2										10	10													
2 / 51		1.0	1.8	.4		.1		.1										2	28	2												
5 / 49		1.0	2.9	.7	1.2	.1	.2											51	51	11	5											
- / 47		3.5	3.4	1.1	.6	.1												72	72	33	11											
4 / 45	.2	4.7	6.2	1.5	.7	.6												115	115	76	28											
4 / 43		5.1	8.7	1.0	.6	.1												128	128	73	45											
2 / 41	.4	5.8	9.1	1.8	.4													144	144	123	62											
4 / 39	.5	6.2	7.1	.5	.1	.4												121	121	171	90											
3 / 37	1.2	4.9	1.9	.4														69	69	142	111											
- / 35	1.1	2.8	1.2	.4														45	45	102	132											
3 / 33	.4	1.2	.6															18	18	52	98											
- / 31	.2	.7	.1															9	9	18	122											
- / 29		.6	.2															7	7	14	36											
- / 27		.1																1	1	6	21											
- / 25																				1	26											
2 / 23																					12											
2 / 21																					15											
- / 19																					7											
1 / 11																					3											
TOTAL	4.0	37.7	43.7	7.8	4.0	1.5	.7	.6										824	824	824	824											
		</																														



## PSYCHROMETRIC SUMMARY

7 793	SEATTLE/TACOMA IAP, WA
STATION	STATION NAME

73-81

YEARS

MAR  
MONTH

PAGE 1

0300-0500  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

MAR  
MONTH

HOURS (L, S, T.)

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

MAR  
MONTH

PAGE 1 3900-1100  
HOURS 11.5.71

[illegible]

USAFETAC FORM 0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

70793 SEATTLE/TACOMA IAP, WA

73-81

MAR

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1200-1400

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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<sup>50</sup>			Σ x <sup>51</sup>			Σ x <sup>52</sup>			Σ x <sup>53</sup>			Σ x <sup>54</sup>			Σ x <sup>55</sup>			Σ x <sup>56</sup>			Σ x <sup>57</sup>			Σ x <sup>58</sup>			Σ x <sup>59</sup>			Σ x <sup>60</sup>			Σ x <sup>61</sup>			Σ x <sup>62</sup>			Σ x <sup>63</sup>			Σ x <sup>64</sup>			Σ x <sup>65</sup>			Σ x <sup>66</sup>			Σ x <sup>67</sup>			Σ x <sup>68</sup>			Σ x <sup>69</sup>			Σ x <sup>70</sup>			Σ x <sup>71</sup>			Σ x <sup>72</sup>			Σ x <sup>73</sup>			Σ x <sup>74</sup>			Σ x <sup>75</sup>			Σ x <sup>76</sup>			Σ x <sup>77</sup>			Σ x <sup>78</sup>			Σ x <sup>79</sup>			Σ x <sup>80</sup>			Σ x <sup>81</sup>			Σ x <sup>82</sup>			Σ x <sup>83</sup>			Σ x <sup>84</sup>			Σ x <sup>85</sup>			Σ x <sup>86</sup>			Σ x <sup>87</sup>			Σ x <sup>88</sup>			Σ x <sup>89</sup>			Σ x <sup>90</sup>			Σ x <sup>91</sup>			Σ x <sup>92</sup>			Σ x <sup>93</sup>			Σ x <sup>94</sup>			Σ x <sup>95</sup>			Σ x <sup>96</sup>			Σ x <sup>97</sup>			Σ x <sup>98</sup>			Σ x <sup>99</sup>			Σ x 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<sup>147</sup>			Σ x <sup>148</sup>			Σ x <sup>149</sup>			Σ x <sup>150</sup>			Σ x <sup>151</sup>			Σ x <sup>152</sup>			Σ x <sup>153</sup>			Σ x <sup>154</sup>			Σ x <sup>155</sup>			Σ x <sup>156</sup>			Σ x <sup>157</sup>			Σ x <sup>158</sup>			Σ x <sup>159</sup>			Σ x <sup>160</sup>			Σ x <sup>161</sup>			Σ x <sup>162</sup>			Σ x <sup>163</sup>			Σ x <sup>164</sup>			Σ x <sup>165</sup>			Σ x <sup>166</sup>			Σ x <sup>167</sup>			Σ x <sup>168</sup>			Σ x <sup>169</sup>			Σ x <sup>170</sup>			Σ x <sup>171</sup>			Σ x <sup>172</sup>			Σ x <sup>173</sup>			Σ x <sup>174</sup>			Σ x <sup>175</sup>			Σ x <sup>176</sup>			Σ x <sup>177</sup>			Σ x <sup>178</sup>			Σ x <sup>179</sup>			Σ x <sup>180</sup>			Σ x <sup>181</sup>			Σ x <sup>182</sup>			Σ x <sup>183</sup>			Σ x <sup>184</sup>			Σ x <sup>185</sup>			Σ x <sup>186</sup>			Σ x <sup>187</sup>			Σ x <sup>188</sup>			Σ x <sup>189</sup>			Σ x <sup>190</sup>			Σ x <sup>191</sup>			Σ x <sup>192</sup>			Σ x <sup>193</sup>			Σ x 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<sup>241</sup>			Σ x <sup>242</sup>			Σ x <sup>243</sup>			Σ x <sup>244</sup>			Σ x <sup>245</sup>			Σ x <sup>246</sup>			Σ x <sup>247</sup>			Σ x <sup>248</sup>			Σ x <sup>249</sup>			Σ x <sup>250</sup>			Σ x <sup>251</sup>			Σ x <sup>252</sup>			Σ x <sup>253</sup>			Σ x <sup>254</sup>			Σ x <sup>255</sup>			Σ x <sup>256</sup>			Σ x <sup>257</sup>			Σ x <sup>258</sup>			Σ x <sup>259</sup>			Σ x <sup>260</sup>			Σ x <sup>261</sup>			Σ x <sup>262</sup>			Σ x <sup>263</sup>			Σ x <sup>264</sup>			Σ x <sup>265</sup>			Σ x <sup>266</sup>			Σ x <sup>267</sup>			Σ x <sup>268</sup>			Σ x <sup>269</sup>			Σ x <sup>270</sup>			Σ x <sup>271</sup>			Σ x <sup>272</sup>			Σ x <sup>273</sup>			Σ x <sup>274</sup>			Σ x <sup>275</sup>			Σ x <sup>276</sup>			Σ x <sup>277</sup>			Σ x <sup>278</sup>			Σ x <sup>279</sup>			Σ x <sup>280</sup>			Σ x <sup>281</sup>			Σ x <sup>282</sup>			Σ x <sup>283</sup>			Σ x <sup>284</sup>			Σ x <sup>285</sup>			Σ x <sup>286</sup>			Σ x <sup>287</sup>			Σ x <sup>288</sup>			Σ x <sup>289</sup>			Σ x <sup>290</sup>			Σ x <sup>291</sup>			Σ x <sup>292</sup>			Σ x <sup>293</sup>			Σ x <sup>294</sup>			Σ x <sup>295</sup>			Σ x <sup>296</sup>			Σ x <sup>297</sup>			Σ x <sup>298</sup>			Σ x <sup>299</sup>			Σ x <sup>300</sup>			Σ x <sup>301</sup>			Σ x <sup>302</sup>			Σ x <sup>303</sup>			Σ x <sup>304</sup>			Σ x <sup>305</sup>			Σ x <sup>306</sup>			Σ x <sup>307</sup>			Σ x <sup>308</sup>			Σ x <sup>309</sup>			Σ x <sup>310</sup>			Σ x <sup>311</sup>			Σ x <sup>312</sup>			Σ x <sup>313</sup>			Σ x <sup>314</sup>			Σ x <sup>315</sup>			Σ x <sup>316</sup>			Σ x <sup>317</sup>			Σ x <sup>318</sup>			Σ x <sup>319</sup>			Σ x <sup>320</sup>			Σ x <sup>321</sup>			Σ x <sup>322</sup>			Σ x <sup>323</sup>			Σ x <sup>324</sup>			Σ x <sup>325</sup>			Σ x <sup>326</sup>			Σ x <sup>327</sup>			Σ x <sup>328</sup>			Σ x <sup>329</sup>			Σ x <sup>330</sup>			Σ x <sup>331</sup>			Σ x <sup>332</sup>			Σ x <sup>333</sup>			Σ x <sup>334</sup>			Σ x <sup>335</sup>			Σ x <sup>336</sup>			Σ x <sup>337</sup>			Σ x <sup>338</sup>			Σ x <sup>339</sup>			Σ x <sup>340</sup>			Σ x <sup>341</sup>			Σ x <sup>342</sup>			Σ x <sup>343</sup>			Σ x <sup>344</sup>			Σ x <sup>345</sup>			Σ x <sup>346</sup>			Σ x <sup>347</sup>			Σ x <sup>348</sup>			Σ x <sup>349</sup>			Σ x <sup>350</sup>			Σ x <sup>351</sup>			Σ x <sup>352</sup>			Σ x <sup>353</sup>			Σ x <sup>354</sup>			Σ x <sup>355</sup>			Σ x <sup>356</sup>			Σ x <sup>357</sup>			Σ x <sup>358</sup>			Σ x <sup>359</sup>			Σ x <sup>360</sup>			Σ x <sup>361</sup>			Σ x <sup>362</sup>			Σ x <sup>363</sup>			Σ x <sup>364</sup>			Σ x <sup>365</sup>			Σ x <sup>366</sup>			Σ x <sup>367</sup>			Σ x <sup>368</sup>			Σ x <sup>369</sup>			Σ x <sup>370</sup>			Σ x <sup>371</sup>			Σ x <sup>372</sup>			Σ x <sup>373</sup>			Σ x <sup>374</sup>			Σ x <sup>375</sup>			Σ x <sup>376</sup>			Σ x <sup>377</sup>			Σ x <sup>378</sup>			Σ x <sup>379</sup>			Σ x <sup>380</sup>			Σ x <sup>381</sup>			Σ x <sup>382</sup>			Σ x <sup>383</sup>			Σ x <sup>384</sup>			Σ x <sup>385</sup>			Σ x <sup>386</sup>			Σ x <sup>387</sup>			Σ x <sup>388</sup>			Σ x <sup>389</sup>			Σ x <sup>390</sup>			Σ x <sup>391</sup>			Σ x <sup>392</sup>			Σ x <sup>393</sup>			Σ x <sup>394</sup>			Σ x <sup>395</sup>			Σ x <sup>396</sup>			Σ x <sup>397</sup>			Σ x <sup>398</sup>			Σ x <sup>399</sup>			Σ x <sup>400</sup>			Σ x <sup>401</sup>			Σ x <sup></sup>		



<u>7-793</u>	<u>SEATTLE/TACOMA IAP, WA</u>
STATION	STATION NAME

**YEARS**

MAR  
MONTH

PAGE 1 1500-1700  
HOURS (L, S, T,)

USAFETAC FORM 0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

YEARS

MAR  
MONTH

[illegible]



## PSYCHROMETRIC SUMMARY

73-81

MAR  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
1 / 59									.2									2	2					
2 / 57							.1	.1										2	2					
5 / 55				.1		.2		.4										6	6					
4 / 53			.5	.6	.4	.1	.6											15	18					
2 / 51		1.1	1.7	1.5	.7	1.3	.2											54	54					
5 / 49		2.3	4.2	1.5	.5	.4	.4											76	76	18	4			
1 / 47		3.7	3.6	1.8	.6	.4												78	78	42	12			
4 / 45	.1	4.1	7.4	4.6	1.5	.8												152	152	86	37			
4 / 43		3.4	9.3	3.3	.2	.1												139	139	99	38			
2 / 41	.1	5.6	6.3	1.8	.2													116	116	155	73			
4 / 39	.7	4.2	4.4	1.1	.5	.5												94	94	165	94			
3 / 37	.6	3.3	1.7	.4														49	49	132	109			
2 / 35	.4	1.1	1.1	.1														22	22	62	142			
3 / 33		.4	.2															5	5	35	103			
2 / 31	.1	.5	.5															9	9	15	77			
1 / 29		.2	.2															4	4	11	51			
2 / 27																				6	20			
1 / 25																					22			
2 / 23																					16			
2 / 21																					12			
1 / 19																					10			
1 / 17																					2			
1 / 15																					1			
1 / 11																					3			
TOTAL		1.129	2.41	6.16	7	4.5	3.9	1.3	.5	.2								826		826	826			
																		826		826				

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	4571566	60353	73.1	14.022	826	$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	
Dry Bulb	1627681	36455	44.1	4.769	826		1.5					93
Wet Bulb	1360712	33342	40.4	4.241	826		3.6					93
Dew Point	1073229	29353	35.5	6.043	826		24.1					93



7 793	SEATTLE/TACOMA IAP, WA
STATION	STATION NAME

73-81

MAR  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point													
7 / 69										.0	.1	.0						3	3															
5 / 67									.0	.1	.0							10	10															
67 / 65									.0	.0	.0							7	7															
4 / 57				.0		.0	.1	.2	.1									24	24															
7 / 61			.0	.0	.5	.1	.1	.2	.1	.0								39	39															
7 / 59			.0	.1	.2	.2	.3	.2	.1									69	69															
7 / 57			.1	.2	.5	.5	.4	.2	.0									122	122	6														
5 / 55		.1	.4	.4	.4	.8	.5	.2	.0									184	185	3	1													
47 / 53		.1	.7	.9	.9	.8	.6	.1	.0									265	265	37	6													
27 / 51		.7	2.0	1.5	1.4	.9	.3	.0										466	466	82	14													
57 / 49	1.0	3.2	2.1	1.6	.5	.3	.0											576	578	237	49													
7 / 47	2.9	3.7	2.8	1.5	.4	.1	.0											760	763	422	121													
47 / 45	.1	3.6	5.9	3.3	.8	.4	.1											937	937	753	247													
47 / 43	.1	3.8	7.2	2.2	.4	.1												917	917	832	343													
27 / 41	.2	4.6	5.7	1.4	.3	.1												767	767	1157	547													
7 / 39	.5	4.5	4.1	.7	.1	.2												661	661	1135	742													
37 / 37	.6	3.5	1.1	.3	.1	.1												371	371	896	965													
7 / 35	.5	1.7	.7	.2														207	207	514	979													
37 / 33	.3	.8	.5	.0														103	103	257	826													
7 / 31	.3	.4	.3															60	60	141	759													
7 / 29	.3	.1																26	26	70	352													
7 / 27	.2																	14	14	33	192													
7 / 25	.1																	1	1	34	158													
7 / 23																					104													
27 / 21																					81													
7 / 19																					48													
7 / 17																					17													
1 / 15																					19													
1 / 13																					6													
1 / 11																					13													
TOTAL	2.5	28.4	35.0	16.3	8.3	5.0	2.8	1.0	.3	.2	.1							6589	6595		6589													
Element (X)	Σ x <sup>1</sup>	Σ x	Σ x	Σ x	No. Obs.	Mean No. of Hours with Temperature						Total																						
Rel. Hum.	35141220	470130	71.3	15.591	6589	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																						
Dry Bulb	13777311	297979	45.2	6.778	6595		11.4	1.5				744																						
Wet Bulb	11213486	270049	41.7	4.713	6589		29.1					744																						
Dew Point	8652733	235475	35.7	6.003	6589		197.5					744																						



## PSYCHROMETRIC SUMMARY

YEARS

APR  
MONTH

PAGE 1 7000-0200  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

APP

PAGE 1

0300-0500

HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
67/55										.4								3	3																
7/59									.3	.1								3	3																
7/57				.1			.1											2	2																
5/55		.1	.1	.3	.3	.3	.1	.3										11	11																
47/53		1.5	.6	1.3	.3													29	29	3															
7/51		1.8	2.3		.3													34	34	15	5														
7/49		1.3	3.2	.4														38	38	32	19														
7/47		4.7	4.2	.6														75	75	43	14														
7/45	.1	7.1	9.7	1.8	.1													143	143	85	35														
47/43		9.11	5	.3														157	157	93	65														
7/41		8.1	5.3	.6														111	111	180	77														
7/39	.4	8.1	4.7															99	99	137	113														
3/37		4.5	1.1															45	45	107	169														
7/35	.5	2.7	.3															26	26	54	121														
3/33	.6	.9																12	12	34	85														
7/31	.1	.4																4	4	9	52														
7/29																					23														
7/27																					9														
7/25																					5														
TOTAL	1.0	49.5	41.2	5.2	.9	.4	.1	.5	.5										792		792														
																		792		792															

Element (X)	Σ x'	Σ x	$\bar{x}$	$s_n$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5156313	63427	81.1	9.853	792	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1551336	34936	44.0	4.918	792		.5					90
Wet Bulb	1364069	32697	41.3	4.237	792		1.0					90
Dew Point	1163839	30127	38.0	4.748	792		10.1					90

USAFETAC FORM 0-26.5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

**YEARS**

APR  
MON

PAGE 1

2600-3800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point				
67 / 65							.1											1	1						
47 / 63							.7		.1									3	3						
27 / 61							.1											1	1						
7 / 59					.1	.3	.1	.1	.3									7	7						
7 / 57				.6		.1	.1	.1										8	8						
5 / 55		.1	1.1	.6	.3	.1												18	18						
47 / 53	2.7	1.7	1.1	.4														36	36	10					
27 / 51	1.7	2.3	.3	.6	.1													34	34	20	10				
5 / 49	1.7	3.6	.6	.1	.1													44	44	25	16				
7 / 47	4.1	5.5	2.9	.1														101	101	46	17				
47 / 45	.4	7.4	7.9	3.3														149	149	86	40				
47 / 43	.1	8.5	8.5	.6														142	142	129	61				
27 / 41	.3	8.4	5.6	.3														116	116	177	101				
4 / 39	.3	6.5	2.8	.1														77	77	139	124				
3 / 37	.3	2.6	1.3	.1														34	34	89	154				
7 / 35	.6	1.5	.1															18	18	37	127				
3 / 33	.7	.4																5	5	22	76				
27 / 31	.4																	3	3	5	42				
7 / 29																					19				
7 / 27																					8				
7 / 25																					2				
TOTAL	2.144	339.8	10.3	1.6	.8	.8	.3	.4										797	797	797	797				

Element (X)	$\Sigma x^1$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	509393	62635	78.6	10.437	797	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1632312	35847	45.3	5.092	797		.3					90
Wet Bulb	1419913	33469	42.7	4.257	797		.6					90
Dew Point	1197647	30669	38.5	4.687	797		8.0					90



## PSYCHROMETRIC SUMMARY

73-51

AP 3

STATION

STATION NAME

YEARS

**MONTH**

PAGE 1

2900-1100

NOV 11 1964

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
7 / 77										.1								1	1													
7 / 75											.1							1	1													
7 / 73											.1							1	1													
7 / 71							.1											1	1													
7 / 69								.1	.1	.4								5	5													
7 / 67					.1	.1		.1		.1								4	4													
6 / 65				.4	.1	.5	.1	.1	.1	.2								13	13													
6 / 63					.6	.2	.4											17	10													
7 / 61			.1	.5	.7	.6	.2											18	18	1												
7 / 59			.2	.9	.6	.1	.1											16	16	5												
7 / 57		.1	.4	1.2	1.9	.7	.6		.1									41	41	5	1											
5 / 55		.5	.9	1.6	2.5	.9	.1											52	52	18	2											
7 / 53		.5	.6	3.6	3.7	.4	.1											66	66	31	9											
7 / 51		.1	3.5	5.2	3.5	.2												101	101	36	10											
5 / 49		.4	4.2	8.2	7.1	.1												121	121	44	21											
7 / 47	.1	3.1	5.8	6.6	.5													130	130	174	30											
4 / 45		3.7	6.7	2.9														101	101	156	40											
4 / 43		3.7	5.1	.7	.1													78	78	178	66											
2 / 41		1.9	1.4	.4														29	29	147	125											
4 / 39		.9	.1															8	8	51	144											
3 / 37	.1	.2	.1															4	4	21	150											
7 / 35	.2	.1																3	3	6	121											
3 / 33																				1	50											
2 / 31																					24											
7 / 29																					2											
2 / 27																					7											
7 / 25																					1											
2 / 21																					1											
TOTAL		14.6	29.2	32.2	15.8	4.0	1.9	.4	.4	.9	.2							804	804	874	804											

Element (X)	$\Sigma x^1$	$\Sigma x$	$\bar{x}$	%	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3863343	54763	68.1	12.882	804	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	
Dry Bulb	2355617	43366	50.2	6.007	804			1.5	.3			90
Wet Bulb	1653696	36264	45.1	4.326	804							90
Dew Point	1276436	31804	39.6	4.781	804			3.9				90



## PSYCHROMETRIC SUMMARY

APR  
MONTH

PAGE 1 1270-1403  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point											
7 / 73											.1	.1						1	1													
7 / 77											.1							1	1													
7 / 77										.1		.4						4	4													
7 / 75								.1		.1								2	2													
7 / 73							.1		.1	.5	.3	.1						9	9													
7 / 71						.1	.4	.1										5	5													
7 / 69					.3	.5	.3	.5	.1	.1	.1							20	20													
7 / 67				.3	1.0	.9	.1	.4	.1									22	22													
7 / 65			.1	1.1	.4	.3	.1											16	16													
7 / 63			.5	.6	1.1	.3	.3											22	22													
7 / 61				1.1	1.3	2.4	.6	.1										44	44	8												
7 / 59				.5	2.5	3.3	1.3	.5	.1									65	65	11												
7 / 57			.9	.4	3.3	2.0	1.5	.1	.1									64	64	26												
7 / 55		.6	.4	1.0	5.1	3.0	.8	.1										87	87	30	5											
7 / 53			1.7	2.5	6.1	2.0	.3											94	94	44	5											
7 / 51		.4	1.5	5.3	5.9	.9												111	111	54	21											
7 / 49		.4	2.8	5.7	3.2	.4												98	98	99	23											
7 / 47		1.4	3.7	2.4	.8													60	60	120	30											
7 / 45		1.0	2.1	.8	.1													32	32	170	54											
7 / 43		1.0	1.0	.1														17	17	130	59											
7 / 41	.4	.1	.6															9	9	69	97											
7 / 39	.1	.8	.1															8	8	21	159											
7 / 37		.1																1	1	9	131											
7 / 35																				1	89											
7 / 33																					57											
7 / 31																					46											
7 / 29																					10											
7 / 27																					2											
7 / 25																					1											
7 / 23																					3											
TOTAL	.5	5.8	13.5	18.7	28.9	16.3	10.0	2.8	1.4	1.0	.5	.6						792	792	792	792											

Element (X)	Z <sub>1</sub>	Z <sub>2</sub>	Z <sub>3</sub>	Z <sub>4</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2856221	46245	58.4	14.042	792	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	2417244	43390	54.8	7.121	792			7.3	1.9	.2		90
Wet Bulb	1793148	37498	47.5	4.740	792							90
Dew Point	1265436	31382	39.6	5.266	792		7.0					90



## PSYCHROMETRIC SUMMARY

YEARS

APR  
MONTH

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
67 55													.1					1	1																
67 53													.3					2	2																
7 70												.4						3	3																
7 77									.1									1	1																
67 75							.3	.3	.1	.3		.1						8	9																
67 77						.1	.3	.1	.3	.3	.1							9	9																
7 77						.1	.3	.4	.6									11	11																
7 69						.3	.8	.9		.5								19	19																
7 67						.3	1.0	.1	.6	.3								18	18																
67 65					.4	.9	.3	.6	1.0	.1								26	26																
67 63						1.0	2.8	2.1	.4	.1								51	51																
7 61				.1	1.1	1.6	1.9	1.5	.6									55	55	9															
7 59				.3	.9	2.5	1.6	1.7	.4									53	53	11															
7 57		.3	1.0	.5	1.5	2.3	2.3	.4										65	65	26															
5 7 55		.3	.6	1.8	2.6	4.9	1.7											89	89	28															
67 53		.5	.5	1.1	3.6	2.8	.8											74	74	49	5														
27 51		.8	2.8	3.9	5.3	2.1	.4											121	121	70	18														
5 7 49		.4	2.5	3.3	2.6	.1												71	71	105	22														
5 7 47		1.1	3.3	1.9	.6													55	55	101	38														
4 7 45		1.9	1.4	1.4														37	37	186	54														
47 43	.1	.5	.9															12	12	118	51														
67 41	.4	.1	1.1															13	13	64	100														
4 7 39	.1	.3	.1															4	4	22	114														
3 7 37																				9	119														
7 35																					91														
3 7 33																					79														
27 31																					67														
7 29																					21														
7 27																					10														
7 25																					8														
27 21																					1														
TOTAL	.5	6.0	14.2	14.2	18.7	18.8	13.0	7.5	4.1	1.4	.5	.5	.5					798	798		798														

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2647290	44142	55.3	16.059	798	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	2531569	44537	55.8	7.591	798			2.1	2.7	.5		90
Wet Bulb	1819866	37922	47.5	4.721	798							90
Dew Point	1228379	30983	38.8	5.650	798			12.1				90



## PSYCHROMETRIC SUMMARY

YEARS

APR  
MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
1 / 51													.1					1	1																
1 / 73												.1						1	1																
7 / 77												.1						1	1																
6 / 75											.1							1	1																
4 / 73								.3			.3							4	4																
1 / 71							.1	.3										3	3																
1 / 59							.3	.3	.1	.5								9	9																
6 / 67					.1	.1	.4											5	5																
6 / 65						.3	.4	.1	.8									12	12																
4 / 63					.1	.8	.4	.6	.1									16	16																
1 / 51					.9	.8	1.3	.5										27	27																
1 / 59			.1	.3	1.4	2.0	.8	.4										39	39	7															
1 / 57		.1	.9	.5	.9	1.5	1.9	.4										48	48	5															
5 / 55		.5	.8	1.4	2.4	2.6	1.0	.3										71	71	20															
4 / 53		.3	1.5	2.1	3.0	2.4	1.1	.1										84	84	33	2														
2 / 51		.6	2.9	3.0	3.9	1.9												98	98	40	15														
5 / 49		.8	3.5	4.3	3.5	.6	.1											102	102	76	23														
1 / 47		3.3	5.0	2.5	2.0	.1												103	103	98	31														
4 / 45		2.4	5.4	3.1	.5													91	91	155	45														
4 / 43		1.9	2.4	1.3	.1													45	45	146	58														
2 / 41	.6	1.7	.5	.4														20	20	135	98														
4 / 39	.1	.9	.3															10	10	49	120														
2 / 37		.5																4	4	25	114														
1 / 35		.1																1	1	7	78														
3 / 33																					92														
2 / 31																					63														
1 / 29																					35														
2 / 27																					14														
1 / 25																					4														
2 / 23																					2														
2 / 21																					1														
1 / 19																					1														
TOTAL	.8	12.3	23.1	18.8	18.8	13.1	7.7	3.1	1.0	.5	.4	.3	.1					796	796		796														
Element (X)	Σx'	Σx	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Mean No. of Hours with Temperature				Total													
Rel. Hum.	3318416	49714	62.5	16.389			796		≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F							90														
Dry Bulb	2172715	41235	51.8	6.723			796				2.8	.9	.1								90														
Wet Bulb	1658843	36163	45.4	4.476			796														90														
Dew Point	1198513	30554	38.4	5.645			796				13.6										90														



## PSYCHROMETRIC SUMMARY

YEARS

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MONTH

PAGE 1

2100-2300

**HOURS (L, S, T.)**

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
7 / 75												.1						1	1															
7 / 69								.1			.1							2	2															
6 / 67								.1		.4								4	4															
6 / 65									.2									2	2															
4 / 63					.4	.1		.2	.1									7	7															
7 / 61					.7	.2	.2											10	10															
7 / 59				1.1	.4	.1	.4	.2										17	17															
7 / 57			.6	.7	1.1	.5	.5	.2										29	29	1														
5 / 55		.5	.4	1.4	.9	.9												32	32	6														
4 / 53		.7	1.1	1.1	2.2	.7	.2											50	50	27														
7 / 51		1.6	2.6	2.9	2.5	.5	.4											84	84	27	11													
5 / 49		1.6	4.3	4.8	2.2	1.4												116	116	48	11													
4 / 47	.1	2.9	6.6	5.7	.7	.1												124	124	81	41													
4 / 45	.1	2.7	7.3	4.1	.6													120	120	113	46													
4 / 43		4.5	5.7	1.1														91	91	168	44													
2 / 41	.2	3.7	5.3	.9														73	73	146	107													
4 / 39	.4	1.2	1.2															23	23	115	127													
3 / 37		1.9	.2															17	17	45	136													
7 / 35		.4																3	3	24	105													
3 / 33																				4	87													
2 / 31																					46													
7 / 29																					26													
7 / 27																					10													
7 / 25																					5													
2 / 23																					1													
2 / 21																					2													
TOTAL	.9	21.0	35.2	23.0	11.7	4.6	2.0	1.0	.5	.1		.1						805	805	805	805													



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

70093 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81  
YEARS

APR  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point					
67 / 85																		1	1						
67 / 83												.0	.0					3	3						
67 / 81													.0					1	1						
67 / 79											.0	.1						5	5						
77 / 77									.0	.0		.1						7	7						
67 / 75								.0	.0	.0	.1	.0	.0					13	13						
47 / 73								.0	.1	.0	.1	.0						23	23						
67 / 71							.0	.1	.1	.1								20	20						
67 / 69					.0	.1	.3	.2	.0	.2	.0							55	55						
67 / 67					.1	.2	.3	.0	.2	.1								56	56						
67 / 65				.0	.1	.3	.2	.2	.3	.0								73	73						
47 / 63				.2	.3	.6	.4	.1	.0									109	109						
67 / 61			.0	.1	.6	.8	.3	.1										161	161	18					
67 / 59			.2	.4	.7	1.1	.5	.3	.1									203	203	34					
67 / 57		.1	.5	.6	1.1	.9	.9	.2	.0									269	269	63					
57 / 55		.3	.6	1.1	1.8	1.6	.4	.1										376	376	102					
47 / 53		.9	.9	1.7	2.4	1.1	.3	.0										466	466	204					
67 / 51	1.0	2.5	2.7	2.9	.7	.1												631	631	296					
57 / 49		.8	3.5	3.7	1.8	.4	.7											652	652	466					
47 / 47	.2	3.2	4.9	3.2	.7	.1												771	771	636					
47 / 45	.1	3.8	6.1	2.6	.2													813	814	1054					
47 / 43	.2	4.5	5.3	.7	.3													674	674	1101					
27 / 41	.2	3.5	3.1	.3														458	458	1077					
47 / 39	.2	3.3	1.4	.1														301	301	666					
37 / 37	.1	1.6	.5	.0														138	140	393					
67 / 35	.2	.7	.1															68	68	169					
37 / 33	.1	.2																21	21	81					
27 / 31	.7	.1																9	9	17					
67 / 29																				157					
27 / 27																				69					
67 / 25																				30					
27 / 23																				8					
27 / 21																				5					
67 / 19																				2					
Element (X)	$\Sigma x^2$		$\Sigma x$		$\bar{x}$		$\sigma_x$		No. Obs.		Mean No. of Hours with Temperature							Total							
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F				Total					
Dry Bulb																									
Wet Bulb																									
Dew Point																									

USAFETAC FORM 0-26-5 (OL A) REVERSED MIRROR EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

7 7037	SEATTLE/TACOMA IAP, WA
STATION	STATION NAME

73-81

YEARS

APB

MONTH

PAGE 2

ALL

HOURS (L, S, T.)

[illegible]



SIGNAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

7 / 73 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81

YEARS

MAY  
MONTH

PAGE 1

0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
7 / 59										.1	.1							2	2						
6 / 67										.1								2	2						
4 / 67					.7	.2	.1											5	5						
1 / 61				.1	.7	.6	.2											14	14						
1 / 59			.4	1.1	.7	.1	.1											19	19						
1 / 57		.5	.6	1.5	.9	.4												31	31						
5 / 55	1.3	2.7	2.1	1.1	.4													61	61	13	1				
4 / 53	1.0	3.9	4.1	.9	.1													82	82	43	11				
1 / 51	2.3	11.1	5.1	.9														159	159	55	14				
5 / 49	3.9	13.1	2.3															159	159	100	36				
1 / 47	4.6	8.7	1.7															118	120	194	70				
4 / 45	4.4	6.1	.4	.1														90	91	180	116				
4 / 43	2.1	4.6	.1	.1														57	57	110	140				
2 / 41	.9	1.6																20	20	79	165				
4 / 39	.2	.1																3	3	41	122				
3 / 37																				7	84				
2 / 35																					44				
3 / 33																					13				
1 / 31																					3				
1 / 29																					2				
2 / 27																					1				
TOTAL	21.2	52.2	18.4	5.5	1.8	.6				.2	.1							822	825	872	822				
																							</		

FORM 0-26-5 (O.L.A.) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC



## PSYCHROMETRIC SUMMARY

MAY

STATION

STATION NAME

**YEARS**

MONTH

PAGE 1

0320-0500

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
6 / 67											.2								2	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													



## PSYCHROMETRIC SUMMARY

YEARS

MAY  
MONTH

PAGE 1 0620-08JC  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

MAY

HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

MAY  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

7793 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81  
YEARS

MAY  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B. W.B. Dry Bulb	TOTAL	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	Wet Bulb
67 85																																	1	1
67 83																																	5	5
67 81																																	6	6
67 79																																	11	11
67 77																																	22	22
67 75																																	13	13
67 73																																	24	24
67 71																																	23	23
67 69																																	28	28
67 67																																	40	40
67 65																																	63	63
67 63																																	91	91
67 61																																	88	88
67 59																																	96	96
67 57																																	98	98
67 55																																	87	87
67 53																																	57	58
67 51																																	48	48
67 49																																	25	25
67 47																																	7	7
67 45																																	3	3
67 43																																		
67 41																																		
67 39																																		
67 37																																		
67 35																																		
67 33																																		
67 31																																		
67 29																																		
67 27																																		
TOTAL	3.4	11.5	11.9	15.7	18.7	16.4	10.6	5.1	4.5	1.6	.7																						824	824
Element (X)	Σx²	Σx	X̄	s²	No. Obs.	Mean No. of Hours with Temperature																												
Rel. Hum.	2555099	44127	53.6	15.274	824	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																						
Dry Bulb	3146319	50573	61.3	7.485	824			19.3	9.7	2.7		93																						
Wet Bulb	223372	42752	51.9	4.353	824							93																						
Dew Point	1559188	35594	43.2	5.129	824		2.0					93																						

FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC JAN 64



## PSYCHROMETRIC SUMMARY

MAY  
MONTH

PAGE 1 1870-2000  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

PAGE 1      2100-2300  
HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

737931 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81

YEARS

MAY  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL										
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point																							
6 / 45											.0	.0																							3	3							
6 / 43											.0	.0																								5	5						
7 / 51											.0	.1	.1																								11	11					
7 / 49											.1	.1	.1	.1																							20	20					
7 / 47											.0	.2	.2	.2	.1																						34	34					
7 / 45										.0	.2	.3	.1	.0																							39	39					
4 / 73											.0	.3	.3	.2																								62	62				
7 / 71									.1	.2	.4	.2	.2																									68	68				
7 / 69						.0	.1	.5	.4	.2	.0	.0																									92	92					
6 / 67					.1	.3	.7	.5	.2	.1																												124	125				
6 / 65				.1	.3	.9	1.2	.5	.1	.0																												201	202	5			
4 / 63			.1	.0	.6	1.5	1.2	.3	.1																													244	245	28			
7 / 61		.1	.1	.4	1.5	1.7	1.1	.2	.0																													333	333	61			
7 / 59		.1	.4	1.3	2.3	2.7	.5	.1																														439	439	104			
7 / 57		.3	1.2	2.1	2.5	2.2	.3	.0																														569	569	182	8		
5 / 55		.7	2.4	3.7	3.1	1.0	.1																															679	679	295	47		
4 / 53		1.1	3.4	4.4	1.6	.4	.0																															713	715	662	78		
2 / 51		2.1	7.0	3.4	1.3	.1	.0																															912	912	758	203		
5 / 49		2.4	6.8	2.2	.1																																	760	762	1092	463		
7 / 47		3.1	4.5	1.2	.0																																	579	582	1255	716		
4 / 45	.0	2.3	3.0	.4	.0																																	372	373	1004	931		
4 / 43		1.2	2.0	.0	.0																																	214	214	613	1050		
2 / 41	.0	.5	.6																																			74	75	334	1122		
4 / 39		.2	.3																																			12	12	144	874		
3 / 37		.1																																				3	3	22	638		
7 / 35																																								3	272		
3 / 33																																										106	
2 / 31																																										32	
7 / 29																																										11	
7 / 27																																										10	
7 / 25																																										1	
TOTAL		.714	.131	.718	.613	.510	.2	6.0	3.0	1.7	.9	.4	.1																									6562	6574	6562			
																																							6562	6562			
Element (X)	Σ X'			Σ X			R			R <sub>s</sub>			No. Obs.			Mean No. of Hours with Temperature						Total																					
Rel. Hum.	30747322			438326			66.814.959			6562			≤ 0 F			≤ 32 F			≤ 67 F			≤ 73 F			≤ 80 F			≤ 93 F															
Dry Bulb	19994776			359348			54.7			7.319			6574						51.9			19.7			3.3						744												
Wet Bulb	15725095			319801			48.7			4.611			6562																		744												
Dew Point	12298281			282487			43.0			4.578			6562			6.1															744												

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

YEARS

131N

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
71							.1											1	1			
69							.3											2	2			
67						.6	.1											6	6			
65				.1	1.6	.6	.5	.4										26	26			
63				.3	1.6	.3	.3	.1										20	20			
61		.5	.1	.9	1.8	1.4	.1											38	38	1		
59		.4	1.1	3.5	2.3	1.0	.1											67	67	11	4	
57	.1	.9	3.0	4.5	2.6	.1												90	90	29	4	
55		2.8	7.3	5.8	2.1	.1												144	144	53	5	
53		3.6	10.9	7.4	.4													178	178	117	26	
51		2.5	11.3	2.3														128	128	161	63	
49		1.8	4.1	.9														54	54	179	131	
47	.1	1.3	1.4															22	22	158	140	
45		1.6	.8															19	19	63	150	
43		.3	.1															3	3	22	125	
41																				4	105	
39																					39	
37																					6	
TAL	.3	15.5	40.1	25.6	12.4	4.1	1.5	.5										798	798	798	798	



## PSYCHROMETRIC SUMMARY

YEARS

JUN  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

73-81

**YEARS**

JUN  
MONTH

PAGE 1

0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
4 / 73						.1												1	1													
4 / 71						.3	.3			.1								5	5													
4 / 69					.1	.3			.1									4	4													
4 / 67					.4	1.3	.1	.1										15	15													
6 / 65				.3	1.3	.3	.3											16	16													
4 / 63			.1	1.3	1.0	.9	.1											27	27	2												
4 / 61		.1	.6	2.3	2.0	.5												44	44	6												
4 / 59		.3	1.8	4.7	2.3	.5												75	75	16	2											
4 / 57	.3	.9	3.4	5.6	2.2													97	97	35	7											
5 / 55	.1	2.9	9.9	8.7	1.1													166	166	73	11											
4 / 53		3.7	12.8	5.0	.3													166	166	121	48											
4 / 51		2.9	7.6	1.8														97	97	177	77											
5 / 49		2.8	2.8	.3														46	46	190	126											
4 / 47		1.5	1.1															21	21	120	178											
4 / 45		.9																7	7	36	161											
4 / 43																				11	103											
2 / 41																					58											
4 / 39																					16											
TOTAL	.4	15.4	39.3	29.1	10.7	4.1	.8	.1	.3									787	787	787	787											
																						787		787								

USAFETAC  
FORM  
JAN 64  
0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

**YEARS**

JUN  
MONTH

PAGE 1 C900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
7 / 51									.3	.1								3	3													
7 / 79								.1	.1	.1	.1							4	4													
7 / 77						.1	.1	.5	.1	.1	.1							9	9													
6 / 75						.1	.4	1.3	.1	.4								18	18													
4 / 73						.6	.8	1.0	.4	.4								25	25													
7 / 71					.3	.6	1.0	.6										20	20													
7 / 69					.4	1.9	1.4	.4	.1									33	33													
6 / 67					.9	2.1	1.6	.1										38	38	1												
6 / 65			.1	.8	2.3	4.1	1.0	.1										67	67	6												
4 / 63		.1	.1	1.0	2.5	2.6	.4	.1										55	55	21												
7 / 61		.1	.3	1.9	5.4	2.6	.5											86	86	28												
7 / 59		.3	1.8	6.4	6.3	1.5	.1											130	130	58												
4 / 57	.1	1.1	3.5	6.9	4.4	.8												134	134	72												
5 / 55	.1	1.0	5.4	4.9	1.1													100	100	128												
4 / 53		1.0	2.8	1.9														45	45	181												
5 / 51		1.0	1.0	.6														21	21	170												
5 / 49		.5	.1	.3														7	7	97												
4 / 47		.5																4	4	28												
4 / 45																				9												
4 / 43																																
4 / 41																																
4 / 39																																
3 / 37																																
3 / 33																																
TOTAL	.3	5.6	15.0	24.5	23.4	17.1	7.3	4.1	1.3	1.1	.3							799	799	799												

REVIEWED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OL A)

**USAFETAC**



## PSYCHROMETRIC SUMMARY

**YEARS**

JUN  
MONTH

PAGE 1      1200-1400  
HOURS (L. S. T.)

[illegible]

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**0-26-5 (OL A)**

**USAFETAC**



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

7 793 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81  
YEARS

JUN  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																
/ 91															.1	.1																2	2			
/ 89																.1																1	1			
6/ 87												.4	.6																			8	8			
6/ 85										.3	1.0	.4	.4																			16	16			
4/ 83									.5	.8	.1	.8	.4																			20	20			
/ 81								.1	.5	.6	.8	.8																				22	22			
/ 79								.6	.8	1.5	1.0	.4																				34	34			
7 / 77								.5	.5	1.4	.6	.																				25	25			
6/ 75							.3	1.3	1.8	.5	.4																					33	33			
4/ 73					.3	.1	.5	1.5	2.3	.5	.1																					42	42			
/ 71					.6	.6	1.4	2.8	1.1	.1																						53	53			
/ 69						1.1	2.4	2.0	1.3	.3																						56	56			
6 / 67				.1	1.0	2.5	3.1	.9																								61	61	17		
6/ 65				.6	2.1	2.8	2.9	1.1	.3																							78	78	32		
4/ 63		.1	.4	1.1	3.4	3.6	2.0	.8																								91	91	29		
2/ 61		.3	.3	1.4	4.4	4.6	1.8	.1																								102	102	67	1	
/ 59		.6	1.0	3.5	2.0	1.9	.3																									74	74	90	11	
/ 57		.6	1.0	1.0	.6	.3																										28	28	132	25	
5 / 55		.3	2.5	.4	.1																											26	26	132	35	
4/ 53		1.0	.9																													15	15	155	60	
2/ 51		.3	.5																													6	7	93	94	
5 / 49		.4	.3																													5	5	40	128	
/ 47																																			10	141
4 / 45																																		1	109	
4/ 43																																				84
2/ 41																																				43
4 / 39																																				43
3 / 37																																				15
3 / 35																																				7
3 / 33																																				2
TOTAL		3.5	6.8	8.1	14.5	17.5	14.5	11.7	8.9	5.9	4.4	3.0	.8	.1	.3																	798	799	798	798	
Element (X)	Σx'	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx	Σx
Rel. Hum.	2329393	41311	51.8	15.472	798																															
Dry Bulb	3682227	53837	67.4	8.277	799																														90	
Wet Bulb	2562588	45086	56.5	4.379	798																														90	
Dew Point	1842117	38140	47.8	4.912	798																														90	

USAFETAC FORM 0-26-5 (OL A) REVISD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

YEARS

JUN  
MONTH

PAGE 1

1800-2000  
HOURS (L - S - T.)

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

JUN  
MONTH

PAGE 1 2170-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
67 / 76								.3	.3	.1								5	5			
47 / 73								.3	.1									3	3			
7 / 71							.4	.6	.3									17	17			
7 / 69						.9	.9	1.0	.1									23	23			
67 / 67						1.4	1.5	.4										26	26			
67 / 65			.1	.5	.9	.9	1.7											27	27			
47 / 63		.1		.9	1.8	2.0	.4	.1										42	42			
7 / 61		.8	.3	2.4	3.9	2.3	.4											79	79	6		
7 / 59	.1	.3	1.5	4.6	5.9	1.6	.1											113	113	34	6	
7 / 57		.8	3.6	6.3	3.4	.5												116	116	50	3	
57 / 55		2.0	7.6	6.1	3.4													153	153	83	8	
47 / 53		1.6	6.1	5.5	.9													113	113	164	41	
27 / 51		.8	4.4	1.6														54	54	184	78	
57 / 47		.4	2.5	.1														24	24	150	110	
7 / 47		.9	.3															9	9	99	161	
47 / 45		.3																2	2	28	158	
47 / 43																				1	121	
27 / 41																					84	
47 / 39																					25	
37 / 37																					4	
TOTAL	.1	7.8	26.4	28.0	20.0	9.5	4.6	2.6	.8	.1								799	799		799	



## PSYCHROMETRIC SUMMARY

YEARS

**JUN**  
**MONTH**

ALL

HOURS L. S. Y.

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
7 / 77								.1										1	1					
6 / 75							.1	.1	.1									3	3					
5 / 73						.2		.2										4	4					
4 / 71							.2	.4										5	5					
3 / 69					.2	1.2	.4											15	15					
2 / 67				.8	.6	1.5	.1											25	25					
1 / 65			.1	1.8	2.4	.8	.4											46	46					
0 / 63		.4	1.7	2.8	2.2	.7	.2											60	60	6				
-1 / 61		.5	2.9	4.0	3.7	.8												99	99	17	1			
-2 / 59		1.6	8.6	7.3	2.1													161	163	56	10			
-3 / 57	.1	2.7	11.5	6.8	.6													179	179	120	20			
-4 / 55		3.1	5.9	4.8	.5													119	119	181	71			
-5 / 53	.1	3.1	3.1	1.9														69	69	212	124			
-6 / 51		1.3	1.8	.2														28	28	126	153			
-7 / 49		.5	.5															8	8	71	191			
-8 / 47		.4	.2															5	5	31	122			
-9 / 45																				7	68			
-10 / 43																					52			
-11 / 41																					13			
-12 / 39																					2			
TOTAL		.213	.535	.730	.512	.3	5.3	1.5	.8	.1									829		827			
																		827		827				



## PSYCHROMETRIC SUMMARY

73-81

YEARS

PAGE 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
7 / 59						.1												1	1																
6 / 67					.2	.4												5	5																
6 / 65			.2	.5	.7	.4	.1											16	16																
4 / 63		1.2	1.2	1.6	.2													33	33																
7 / 61		.4	3.2	1.8	1.1	.1												54	54	6															
7 / 59		2.1	5.0	5.2	.9													108	108	22	5														
7 / 57		4.8	12.2	6.3	.5													195	195	70	22														
5 / 55		7.8	12.3	4.3	.1													201	201	141	49														
4 / 53	.4	4.5	8.3	2.8														131	131	236	112														
2 / 51		2.0	2.7	.7														44	44	173	149														
5 / 49		1.7	1.3															25	26	111	192														
7 / 47		.4	.4															6	6	48	150														
4 / 45		.1																1	1	11	85														
4 / 43																				2	41														
2 / 41																					15														
7 / 39	.4	23.7	46.6	22.9	5.1	1.2	.1												821		820														
																		820		820															

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5034402	63856	77.9	8.688	820	$\leq 0$ F	$\leq 32$ F	$\leq 67$ F	$\leq 73$ F	$\leq 80$ F	$\leq 93$ F	
Dry Bulb	2552664	46576	56.7	3.556	820			.7				93
Wet Bulb	2309015	43441	53.1	3.056	820							93
Dew Point	2043456	40832	49.8	3.533	820							93



## PSYCHROMETRIC SUMMARY

YEARS

JUL  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point														
5 / 75								.1										1	1																
4 / 73						.1		.1										2	2																
3 / 71					.2	.2												6	6																
2 / 69				.1	.6	1.0	.1											15	15																
6 / 67				1.0	1.3	1.0	.1											28	28																
6 / 65			.5	1.8	2.6	1.2												50	51																
4 / 63			1.3	3.1	2.6	.1												58	58	9															
3 / 61		.5	1.8	4.4	3.2	.4												84	84	22															
2 / 59		2.4	7.6	8.2	1.3													160	160	61	9														
1 / 57		3.8	10.7	3.7	.5													153	154	105	37														
5 / 55	.4	5.6	10.1	3.4	.2													162	162	191	65														
4 / 53	.4	3.2	3.4	1.3														68	68	215	141														
3 / 51		1.0	1.3	.4														22	22	139	177														
5 / 49		.4	.9															10	11	51	191														
2 / 47																				23	113														
4 / 45																				3	49														
4 / 43																					30														
2 / 41																					7														
TOTAL	.7	16.8	37.7	27.4	12.6	4.0	.5	.2											819	822		819													

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Num.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	4653719	61201	74.7	9.913	819							93
Wet Bulb	2873067	48463	59.7	4.389	822			5.9	.3			93
Dew Point	2435227	44581	54.4	3.229	819							93
	2117921	41553	50.7	3.439	819							93



## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 JUL MONTH 0900-1100 HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

**JUL**  
**MONTH**

PAGE 1 1200-1400  
HOURS (L. S. F.)

[illegible]



## PSYCHROMETRIC SUMMARY

73-81

JUL  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point												
8 / 97																	.2	2	2														
6 / 95																	.2	5	5														
4 / 93																	.1	4	4														
1 / 91														.1	.1			2	2														
7 / 89												.5						5	5														
8 / 87										.2	.6	.7						13	13														
6 / 85									.1	1.5	2.6	.6						39	39														
4 / 83								.5	1.2	2.1	1.3	.1						43	43														
1 / 81								.2	1.7	2.4	.7							42	42														
7 / 79							.4	1.7	1.7	1.5	1.1							52	52														
7 / 77							.7	2.6	2.3	1.2	.2	.1						59	59														
6 / 75						.1	1.3	4.0	2.2	.5								67	68														
4 / 73						1.2	3.7	3.5	1.0									77	77														
1 / 71					.4	1.3	4.9	2.1	.1	.1								73	73														
7 / 69					1.0	3.4	3.4	1.7	.4									81	81	12													
6 / 67				.2	2.0	2.9	3.4	.7										76	76	62													
6 / 65				1.2	2.3	2.8	1.7											66	66	74													
4 / 63		.4	.6	1.7	1.3	1.6	.2											48	48	100													
2 / 61			.4	2.2	.5	1.0	.1											34	34	139	9												
1 / 59			1.3		.4													14	14	173	23												
7 / 57			.7	.9	.2	.1												16	16	107	62												
5 / 55			.1															1	1	96	108												
4 / 53																				45	160												
2 / 51																				8	150												
5 / 49																				3	122												
4 / 47																					82												
4 / 45																					63												
4 / 43																					27												
2 / 41																					10												
3 / 37																					3												
TOTAL		.4	3.2	6.2	8.1	14.5	19.9	17.1	10.7	9.5	6.6	2.1	.2	.9	.2	.4		819	820	819	819												
Element (X)	Σ x'		Σ x		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature							Total															
Rel. Hum.	2048267		39679		48.4		12.406		819		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total										
Dry Bulb	4428751		59915		73.1		7.832		820						72.7		46.6		20.4		1.2		93										
Wet Bulb	3109255		49533		60.5		4.063		819						8.4								93										
Dew Point	2192221		42237		51.6		4.137		819														93										



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

7793 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81  
YEARS

YEARS

JUL  
MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																							TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point						
97																	.1		1	1							
91													.1	.2				3	3								
89												.1						1	1								
87											.2	.4	.1					6	6								
85										.1	.5	.4	.1					9	9								
83									.1	.7	.5	.1						12	12								
81							.1	.2	1.3	1.9	.6	.1						36	36								
79							.2	.8	1.7	1.2								33	33								
77							1.5	1.6	1.3	.6								41	41								
75						.2	1.7	2.4	1.3		.1							48	48								
73					.1	1.7	2.4	2.9	1.1	.2								70	70								
71					.2	1.9	4.1	2.2										70	70								
69				.1	1.6	3.1	7.9	.8	.1									80	80	1							
67				.2	1.9	4.7	3.7	.4	.2									81	81	21							
65				1.6	4.4	2.9	1.8	.1	.1									90	90	55							
63		.6	.2	3.7	3.5	1.8	.7											82	82	77							
61		.7	.6	2.7	3.5	2.2												80	80	119	5						
59		.8	1.8	1.1	1.2	.7												47	47	163	27						
57		.5	1.0	.7	.7													24	24	148	67						
55		.2	.4	.1	.1													7	7	121	78						
53		.1	.4															4	4	81	142						
51			.1															1	1	28	171						
49																				11	127						
47																				1	97						
45																					62						
43																					26						
41																					15						
39																					6						
37																					3						
TOTAL		3.0	4.5	9.6	17.3	18.6	19.5	11.5	7.4	4.8	1.9	1.1	.4	.2		.1		826	826	826							
Element (X)	Σx'		Σx		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ						
Rel. Hum.	2581456		44874		54.3		13.193		826		Σ 0 F		Σ 32 F		Σ 67 F		Σ 73 F		Σ 80 F		Σ 93 F						
Dry Bulb	3997310		57146		69.2		7.280		826						55.3		29.3		9.5		.1						
Wet Bulb	2871846		48592		58.8		4.011		826						2.5												
Dew Point	2178656		42274		51.2		4.279		826																		

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

YEARS

**JUL**  
**MONTH**

PAGE 1 2170-2300

[illegible]



## PSYCHROMETRIC SUMMARY

73-81

YEARS

JUL  
MONTH

PAGE 1

ALL

HOURS (L, S, T,)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
2 / 97																	.0	2	2																
2 / 95																	.0	6	6																
2 / 93														.0	.1		.0	7	7																
2 / 91												.0	.1	.1			.0	10	10																
2 / 89												.1	.0					8	8																
2 / 87										.0	.2	.2	.0					27	27																
2 / 85									.0	.3	.5	.1	.0					62	62																
2 / 83								.1	.3	.5	.3	.0						82	82																
2 / 81							.0	.2	.6	.8	.2	.0						119	119																
2 / 79							.1	.7	.8	.5	.2							154	154																
7 / 77					.0	.4	.9	.7	.3	.0	.0							159	159																
6 / 75				.0	.1	.8	1.5	.8	.1	.0								216	217																
4 / 73				.1	1.0	1.7	1.4	.4	.0									301	301																
2 / 71				.3	1.1	2.4	.9	.1	.0									321	321																
2 / 69				.1	1.0	2.3	1.9	.5	.1									384	384	23															
6 / 67				.6	1.9	2.7	1.4	.3	.0									457	457	129															
6 / 65		.0	.2	1.7	3.3	2.1	.9	.1	.0									545	546	224															
4 / 63		.3	.6	2.8	3.2	1.3	.3											565	566	360	1														
2 / 61		.3	1.6	3.7	2.8	.9	.7											618	618	593	31														
2 / 59		1.2	4.5	4.3	1.5	.1												767	769	857	144														
2 / 57	.1	1.7	5.5	3.0	.8	.0												723	725	1014	364														
5 / 55	.1	2.4	4.7	1.9	.2													568	568	1224	648														
4 / 53	.1	1.6	2.1	.9														305	305	1104	1117														
2 / 51		.6	.9	.2														113	113	605	1329														
5 / 49		.3	.4															46	48	302	1250														
4 / 47		.1	.1															11	11	117	821														
4 / 45		.0																1	1	23	506														
4 / 43																				2	260														
2 / 41																					89														
4 / 39																					11														
3 / 37																					6														
TOTAL	.2	8.6	19.9	19.2	15.0	11.7	10.0	6.5	3.8	2.6	1.5	.5	.2	.2	.0	.1		6577	6577		6577														
Element (X)	Σx'				Σx		x		c <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature																						
Rel. Hum.	28177761				418407		63.6		15.403		6577		≤ 6 F		≥ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total										
Dry Bulb	27826146				424628		64.5		8.253		6586						261.6		130.4		44.2		1.7		744										
Wet Bulb	21332260				373414		56.8		4.470		6577						17.2								744										
Dew Point	17170413				335061		50.9		3.918		6577														744										

**USAFETAC** FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1      0000-020C  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

73-81

**YEARS**

AUG  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
c / 75						.1	.2											3	3			
4 / 73						.1												1	1			
7 / 71						.1	.2											3	3			
1 / 69						.1	.1											2	2			
f / 67			.2	.8	.2													11	11			
6 / 65		.1	.1	.4	.1	.1												7	7	3		
4 / 63		.1	.4	1.1	.2													15	15	8	1	
1 / 61		2.8	3.4	1.4	.4													66	66	14	3	
7 / 59		5.3	7.5	2.2	.1													125	125	34	12	
1 / 57		.7	13.2	10.0	1.7	.2												214	214	118	50	
5 / 55	1.6	13.3	8.3	1.3														203	203	220	146	
4 / 53	1.4	6.3	4.2	.2														101	101	202	197	
2 / 51	.6	4.1	1.2															49	49	129	155	
5 / 49	.4	1.7	.8															24	24	75	149	
4 / 47	.5																	4	4	20	77	
4 / 45																				5	27	
4 / 43																					9	
2 / 41																					2	
TOTAL	4.7	47.3	36.2	9.2	1.7	.6	.2											828	828	828	828	



## PSYCHROMETRIC SUMMARY

YEARS

0600-0800  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

AUG  
MONTH

[illegible]



## PSYCHROMETRIC SUMMARY

73-81

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1276-1400

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																											TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point										
67/99															.1			1	1												
67/97															.1			1	1												
67/95															.2			2	2												
67/93												.4	.1					4	4												
67/91											.4	.6	.2					10	10												
67/89										.2	.4	.4						8	8												
67/87										.5	.6	.1	.1					11	11												
67/85									.1	.6	.2							8	8												
67/83								.2	.6	.9								14	14												
67/81							.1	.1	2.1	.2								21	21												
67/79							.1	1.1	1.0									18	18												
77/77							1.0	1.3	.7									25	25												
67/75					.2	1.8	2.3	1.7	.6									55	56												
67/73					.1	2.4	2.2	1.6	.4									55	55												
67/71				.1	1.6	2.9	2.8	1.6	.1									75	75	12											
67/69				.2	2.8	4.0	2.3	.5										81	81	21											
67/67			.2	1.3	4.6	3.9	1.6		.1									97	97	33											
67/65			.6	2.8	6.3	3.7	.5											111	111	60											
67/63		.4	1.0	3.8	3.5	.4	.1											75	75	87	2										
67/61		1.0	3.2	3.8	1.6	.2												80	80	106	16										
67/59	.1	1.5	1.6	.9	.2													35	35	176	64										
67/57	.1	.9	1.0	.4	.1													20	20	171	126										
57/55		.9	.5															11	11	112	150										
57/53																				35	139										
57/51																				5	142										
57/49																					103										
57/47																					47										
57/45																					21										
57/43																					5										
57/41																					2										
57/39																					1										
TOTAL	.2	4.5	8.1	13.3	20.9	19.4	13.1	8.2	5.7	2.4	1.6	1.5	.5	.4	.1			818	819		818										
																		818		818											
Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$\sigma_x$	No. Obs.		Mean No. of Hours with Temperature										Total														
Rel. Hum.	2998377	48177	58.9	14.035	818		≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																		
Dry Bulb	4302547	56901	69.5	7.762	819				55.3	26.6	10.3	.9	93																		
Wet Bulb	2773288	49206	60.2	4.042	818				7.5				93																		
Dew Point	2366647	43886	53.7	3.855	818								93																		



## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

AUG  
MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
6 / 85										.1								1	1															
6 / 83										.2		.2						4	4															
/ 81									.2	.5								6	6															
/ 79								.2	.7	.1								9	9															
7 / 77							.2	.7	.1									9	9															
6 / 75							.8	.7										13	13															
6 / 73						.7	.8	.2										15	15															
/ 71					.4	1.5	.4											18	18															
/ 69				.1	1.0	1.0	.5											26	26	2														
6 / 67				.6	2.1	1.6	.5											39	39	5														
6 / 65			.5	3.3	1.8	1.0												58	58	5														
4 / 63		.5	2.5	4.1	3.6	1.5	.2											103	103	41														
/ 61		2.4	6.7	7.7	2.8	.5												160	160	64	3													
/ 59	.2	5.6	8.2	5.1	.6	.1												164	164	113	17													
/ 57		5.1	6.5	1.6	1.7													117	117	165	98													
5 / 55		2.4	3.8	1.6														64	64	206	169													
4 / 53		1.2	1.7															18	18	133	172													
/ 51		.2																2	2	57	145													
/ 49																				15	123													
/ 47																					56													
/ 45																					27													
4 / 43																					15													
/ 41																					1													
T	.2	17.4	29.2	23.8	13.8	7.7	3.6	2.2	1.0	.8	.2							826	526	826	826													

Stations	Σ H'	Σ H	Σ	Σ <sub>2</sub>	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
St. H.	4436630	59617	72.2	12.7	33							
St. B.	3226561	51411	62.2	5.6	88			15.8	6.4	1.7		93
St. C.	2675878	46930	56.8	3.3	94			.8				93
Dew Point	2376639	43551	52.7	3.5	50							93



## PSYCHROMETRIC SUMMARY

73-81

YEARS

AUG  
MONTH

PAGE 1

ALL

HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
57/99																.0	.0	3		3												
57/97																.0	.0	4		4												
57/95													.0	.1	.0			9		9												
57/97												.1	.2	.1	.0			20		20												
7/91											.1	.2	.0	.0				21		21												
7/89										.0	.0	.1	.1					17		17												
67/87										.1	.3	.2	.0					37		37												
67/85									.1	.4	.3	.0	.0					54		54												
7/83									.1	.4	.3	.2						55		55												
7/81						.0	.0	.2	.6	.4	.1							89		89												
7/79						.1	.6	.6	.2	.0								96		96												
7/77						.1	.6	.6	.4	.1	.0		.0					121		121												
67/75					.1	.6	1.0	.9	.4	.1	.0							197		198												
47/73					.1	1.0	1.3	.7	.3									220		220												
7/71				.1	.7	1.5	1.1	.7	.1									270		270	23											
7/69	.1	.0	.0	.2	1.7	1.6	1.1	.2	.1									322	324	61	1											
67/67			.1	.9	1.7	1.8	.6	.1	.0									349	349	152	1											
67/65		.0	.5	2.6	2.8	1.3	.2	.0										488	489	237												
47/63		.4	1.7	3.3	2.5	.7	.1											566	567	346	6											
7/61		1.6	4.2	4.0	1.6	.2												765	765	536	66											
7/59	.2	4.5	5.9	3.0	.3	.0												917	917	866	258											
7/57	.3	6.7	5.5	1.5	.2													879	879	1362	767											
57/55	.4	4.6	4.7	.7	.0													639	643	1332	1217											
47/53	.4	2.2	1.5	.1														279	279	961	1335											
7/51	.2	.9	.4															106	106	468	1170											
7/49	.1	.3	.2															39	39	179	982											
7/47		.1																5	5	57	476											
7/45	.1	.3																2	2	8	177											
47/43																				1	81											
7/41																					23											
7/39																					4											
37/37																					5											
TOTAL	1.2	2.7	7.2	4.0	16.3	11.7	8.8	6.2	4.0	3.0	1.5	1.0	.5	.3	.2	.1	.0	6569	6578		6569											
Element (X)	Σg <sup>2</sup>	Σg	Σ	Σ <sup>2</sup>	No. Obs.												Mean No. of Hours with Temperature															
Rel. Hum.	34215430	461654	70.3	16.425	6569												≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
Dry Bulb	27777277	418603	63.6	8.167	6578														213.4	106.8	40.9	4.1	744									
Wet Bulb	2176774	377792	57.4	4.290	6569														26.7				744									
Dew Point	18457292	347348	52.9	3.715	6569														.2				744									



## PSYCHROMETRIC SUMMARY

**YEARS**

SEP  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
47 / 73											.3							2	2													
7 / 71										.1								1	1													
7 / 69								.1										1	1													
± 7 / 67						.4	.1											4	4													
67 / 65			.1	.6	.6	.8	.1			.1								19	19													
47 / 63			1.0	1.1	.6				.1									25	25													
7 / 61		1.5	2.7	2.9	1.5				.1									64	64	2												
7 / 59		4.6	6.3	3.5	.3													133	133	37												
7 / 57	.4	6.5	7.0	2.9	.1	.3												161	161	92												
57 / 55		8.4	9.8	1.4	.1													157	157	175												
47 / 53		6.8	7.2	.3	.4													116	117	183												
27 / 51		3.8	3.8	.1														61	61	146												
57 / 49		2.6	2.1															38	38	80												
7 / 47		.9	.8															13	13	59												
47 / 45		.1																1	1	17												
47 / 43		.1																1	1	6												
27 / 41																																
37 / 39																																
37 / 37																																
7 / 35																																
7 / 33																																
7 / 31																																
TOTAL	.4	35.4	45.0	12.8	3.8	1.4	.4	.1	.3	.3	.3							797	798	797												



## PSYCHROMETRIC SUMMARY

73-81

SEP

**MONTH**

PAGE 1

0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
69										.4								3	3					
63			.3	.4	.1	.4												9	9					
61			1.0	1.0	1.6	.3			.1									32	32	3				
59			3.5	5.8	1.6													87	87	17	3			
57		.8	8.1	6.8					.1									125	125	60	29			
55		.3	11.2	9.3	1.6	.3												187	180	136	51			
53			13.9	7.6		.1												171	171	157	128			
51		.1	7.1	5.9														104	104	201	169			
49			3.4	2.7														43	44	114	180			
47			2.3	1.0														26	26	61	110			
45			1.1	.4														12	12	30	64			
43			.1	.1														2	2	13	27			
41																				2	17			
39																					9			
37																					2			
35																					3			
33																					1			
31																					1			
TOTAL		1.1	51.9	45.3	5.7	1.0			.3		.4							794		795	794			
																					794		794	

0-26-5 (OL A)

**USAFETAC**



## PSYCHROMETRIC SUMMARY

YEARS

SEP  
MONTH

PAGE 1      2600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
6 / 75											.1							1	1			
/ 71											.1							1	1			
/ 69											.1							1	1			
/ 67					.3	.1												3	3			
6 / 65		.1		.3	.3	.3												7	7			
4 / 63		.5	.3	1.7	.3				.1									17	17	1		
/ 61		1.3	1.7	3.2	.3													50	51	5	1	
/ 59		4.0	6.2	.9	.6			.1										93	93	19	6	
/ 57	.4	7.7	8.5	1.7	.3			.1										136	136	80	29	
5 / 55	.3	11.7	8.5	.9	.1													163	163	131	68	
4 / 53	.3	10.5	5.2	.6														130	130	187	114	
/ 51		8.2	4.5															99	99	157	185	
5 / 49	.3	3.6	2.9	.1														54	54	98	170	
/ 47		1.9																15	15	63	84	
4 / 45		.6	.8															11	11	31	63	
4 / 43	.3		.1															3	3	7	36	
2 / 41																				5	12	
4 / 39																					8	
3 / 37																					5	
/ 35																					2	
3 / 33																					1	
TOTAL	1.4	48.6	38.8	8.0	2.0	.4	.3		.1	.3	.1							784	785		784	



## PSYCHROMETRIC SUMMARY

**YEARS**

PAGE 1

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

70793 SEATTLE/TACOMA IAP, WA

73-81

SEP

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1200-1400

HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																							TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point							
/ 91													.1										1	1			
/ 89												.3											2	2			
-8/ 87											.1	.1	.4	.6	.3								3	3			
6/ 85										.1	.1	.4	.6	.3									12	12			
-7/ 83									.1	.6	.5	.5	.1	.1									11	11			
/ 81								.1	.6	.5	.5												14	14			
/ 79							.1	.5	.3	.6	.1												13	13			
7/ 77						.5	.6	1.0	1.6	.5	.1	.1											32	32			
6/ 75					.1	1.1	1.4	.8	.3	.1													33	33			
4/ 73			.1	.1	1.3	2.8	1.3	.1	.3														47	47			
/ 71			.1	.5	2.9	2.7	1.1																58	58			
/ 69			.4	1.6	4.0	2.1	.1																66	66			
6/ 67			.1	.3	3.5	4.7	1.3	.1															79	79	17		
6/ 65			1.4	2.4	5.1	2.8	.1																93	93	25		
4/ 63		.5	1.1	3.2	3.8	1.8	.3																84	84	66	1	
/ 61		.8	2.7	3.8	3.2	2.3																	95	95	119	13	
/ 59		1.3	2.9	2.8	1.8	.8																	75	75	144	23	
/ 57		1.0	1.6	1.8	.6																		40	41	168	58	
5/ 55		.9	1.8	.3	.1																		24	25	113	116	
4/ 53		.1	.5	.5																			9	9	75	139	
-2/ 51																									49	158	
5/ 49			.1																				1	1	12	116	
/ 47																									4	77	
4/ 45																										41	
4/ 43																										21	
-2/ 41																										18	
4/ 39																										7	
3/ 37																										2	
/ 35																										1	
3/ 33																										1	
TOTAL		4.5	11.6	15.5	20.3	21.0	11.1	5.7	3.5	2.7	1.8	1.0	.9	.4									792	794	792		
Element (X)	Σ x'		Σ x		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature										Total						
Rel. Hum.	3504153		47427		59.9		14.404		792		≤ 0 F	≤ 32 F	≥ 47 F	≥ 73 F	≥ 80 F	≥ 93 F					90						
Dry Bulb	3670534		53162		67.5		7.198		794				42.1	19.0	5.6						90						
Wet Bulb	2696445		46139		58.2		3.903		792				1.9								90						
Dew Point	2131359		40937		51.7		4.413		792												90						

FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC



## PSYCHROMETRIC SUMMARY

**YEARS**

SEP  
MONTH

PAGE 1      1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																										TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point										
77 / 93																	.4	3	3											
77 / 91													.1	.1				2	2											
77 / 89													.1					1	1											
77 / 87												.3	.1	.4				6	6											
77 / 85										.3	.3	.4	.1	.1	.3			11	11											
77 / 83											.1	.4	.3	.1				7	7											
77 / 81									.5	1.0	1.0	.6						25	25											
77 / 79							.1	.6	.5	.9	.4	.4						23	23											
77 / 77							.8	1.5	1.3	.5	.4	.1	.1					37	37											
77 / 75						.5	1.3	2.4	.8	.3	.1							42	42											
77 / 73					.6	.8	2.4	1.8	.4	.1		.1						49	49											
77 / 71				.1	1.0	1.5	3.8	1.8	.6									70	70											
77 / 69				.3	1.3	2.8	2.4	.5										57	57	1										
77 / 67			.1	1.1	2.1	2.1	2.1	.1										62	62	16										
77 / 65			.4	1.8	4.0	2.8	1.3	.1										82	82	34										
77 / 63		.4	2.1	2.3	3.5	2.8	.5	.1										93	93	61	1									
77 / 61		1.5	1.6	3.6	1.6	2.1	.4											87	87	125	9									
77 / 59		.6	1.8	3.1	1.4	.6												60	60	140	31									
77 / 57		1.5	1.4	1.8	.8	.1												40	40	139	56									
77 / 55		1.8	1.5	.5	.3													32	33	126	91									
77 / 53		.3	.1	.3														5	5	90	133									
77 / 51			.4															3	3	48	139									
77 / 49																				14	113									
77 / 47																				3	89									
77 / 45																					51									
77 / 43																					47									
77 / 41																					19									
77 / 39																					9									
77 / 37																					4									
77 / 35																					2									
77 / 33																					3									
77 / 31																					2									
TOTAL		5.5	9.4	14.8	16.6	16.1	14.9	9.4	4.5	3.0	1.9	1.6	.9	.8	.3	.4			798		797									
																		797		797										
Element (X)	ΣX'		ΣX		Σ		Σ <sub>2</sub>		No. Obs.		Mean No. of Hours with Temperature																			
Rel. Hum.	2834178		45820		57.5		15.849		797		± 0 F		± 32 F		± 67 F		± 73 F		± 80 F		± 93 F		Total							
Dry Bulb	3706491		54031		67.7		7.773		798						44.5		23.2		7.7		.3		90							
Wet Bulb	2712154		46387		58.2		4.065		797						1.9								90							
Dew Point	2092483		40651		51.0		4.896		797						.3								90							



## PSYCHROMETRIC SUMMARY

YEARS

SEP  
MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)

[illegible]

0-26-5 (OL A)

**USAFETAC**



## PSYCHROMETRIC SUMMARY

73-81

SEP  
MONTH

PAGE 1      2100-2300  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

SEP  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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## PSYCHROMETRIC SUMMARY

YEARS

PAGE 2

ALL

HOURS (L. S. T.)

[illegible]

FORM 0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JAN 64

**USAFETAC**



## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
/ 51				.4	.7													5	5															
/ 59		.2	.7	.9														15	15															
/ 57		1.3	2.0	1.2	.2					.2								41	41	2														
5 / 55		2.0	4.0	.9	.1	.1	.1											59	60	26	6													
4 / 57		4.2	5.4	1.1	.4		.1											91	91	51	19													
7 / 51		6.3	7.9	1.6	1.7													136	137	77	35													
5 / 49	.1	7.4	7.7	.7	.1													131	131	120	91													
/ 47	.1	9.8	5.8	.6	.1													134	134	149	112													
6 / 45	.5	9.8	4.2															113	118	161	142													
4 / 43		6.0	.9															56	56	134	117													
2 / 41		2.6	.2															23	23	69	116													
5 / 39	.1	.5																5	5	22	111													
2 / 37		.1																1	1	3	56													
/ 35																				1	10													
3 / 33																					4													
/ 27																					1													
/ 25																					2													
1 Tot	.950	238.8	7.4	2.2	.1	.2	.2												815	817		815												
																		815		815														



## PSYCHROMETRIC SUMMARY

OCT  
MONTH

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JAN 84

[illegible]



AD-A118 508 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
SEATTLE TACOMA IAP, WASHINGTON. REVISED UNIFORM SUMMARY OF SURF--ETC (11)  
JUN 82

UNCLASSIFIED USAFETAC/DS-82/038

SBI-AD-F850 197

NL

50-5

4-500

END  
PAGE  
04 042  
014



## PSYCHROMETRIC SUMMARY

YEARS

OCT

**MONTH**

PAGE 1 0600-0800

600-0800  
HOURS: 11:55 A.M. - 5:00 P.M.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
47 / 53									.1									1	1			
47 / 51					.1													1	1			
47 / 49		.2	.4		.4	.1		.1										10	10			
47 / 47		.4	1.6	.4	.1		.1											21	21	3		
57 / 55	1.8	3.3	.7															48	48	7	3	
47 / 53	5.9	4.2	.9			.2												91	91	36	11	
47 / 51	.1	6.6	5.3	.7	.4	.1												108	108	95	50	
57 / 49	.1	8.6	5.6	.9	.4	.1												128	128	103	74	
47 / 47	.2	9.4	4.9	.9	.1													127	127	123	110	
47 / 45	1.21	7.9	3.4															127	127	161	131	
47 / 43	.6	7.6	1.8	.1														83	83	132	120	
47 / 41	.5	4.3	.5															43	43	94	125	
47 / 39	.9	1.2																17	17	47	83	
37 / 37	.5	.6																9	9	10	65	
47 / 35	.2																	2	2	5	24	
37 / 33	.1																	1	1	1	15	
47 / 31																					2	
47 / 29																					3	
47 / 27																					1	
TOTAL	4.557	5.31	7.4	4.5	1.5	.6		.2	.1									817	817		817	
																		817		817		



## PSYCHROMETRIC SUMMARY

YEARS

OCT  
MONTH

PAGE 1      0900-1100  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

73-81

OCT  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

OCT  
MONTH

PAGE 1      1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
/ 31									.1									1	1					
/ 79									.1	.1								2	2					
6 / 75									.5	.4								7	7					
4 / 73						.4			.5	.1								8	8					
/ 71							.6	.5										9	9					
/ 69					.1	.5	.6	.6	.1									16	16					
/ 67					.5	1.3	1.0		.1	.1								25	25					
6 / 65				.4	1.9	1.5		.2		.1								34	34	2				
4 / 63					1.1	1.9	1.7	1.0										47	47	4				
/ 61			.2	1.7	3.7	2.1	1.1	.1	.1									69	69	8				
/ 59			.6	4.6	3.6	2.3	.6	.1										98	98	27				
/ 57	.1	1.2	2.5	3.1	3.1	1.8	.4	.1										103	103	52	4			
5 / 55		.7	4.6	4.6	4.1	.8												123	123	77	14			
4 / 53	.2	2.1	4.7	5.1	1.7	.4												111	111	127	40			
2 / 51			3.4	5.2	1.8	.4												89	89	132	57			
5 / 49			2.8	2.4	.8													50	50	169	123			
/ 47			1.2	.8	.1													18	18	143	148			
4 / 45			1.9															16	16	58	114			
4 / 43			.1															1	1	26	111			
/ 41																				2	91			
4 / 39																					73			
/ 37																					29			
/ 35																					13			
3 / 33																					5			
2 / 31																					1			
/ 29																					3			
/ 27																					1			
TOTAL	.4	13.4	20.4	23.3	20.4	12.7	5.2	2.3	1.3	.5								827	827	827	827			
																					827		827	



## PSYCHROMETRIC SUMMARY

**73-81**

OCT  
MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

7793 SEATTLE/TACOMA IAP, WA

73-81

OCT

STATION

STATION NAME

YEARS

MONTH

PAGE 1 2100-2300

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																									TOTAL D.B./W.B.	TOTAL								
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
67					.1													1														1			
66					.1													1														1			
65					.2	.5		.1										7														7			
64				.1	.4	.4	.1											8														8			
63		.4	1.7	2.1	.2						.1							37														37	1		
62		.2	2.9	1.8	.4						.2							46														46	10		
61	.1	1.7	6.6	1.9	.5	.1												84														84	32	8	
60		4.4	6.7	2.9	.2	.2												119														120	64	24	
59		3.8	9.6	3.4	.4													141														141	115	33	
58	.1	5.5	9.8	1.7														141														141	105	100	
57		8.6	4.5	.9	.1													116														116	167	131	
56	.2	6.2	2.1	.2														72														72	175	138	
55		4.3	.5															39														39	94	108	
54		1.1																9														9	51	134	
53		.2																2														2	8	99	
52																																		1	33
51																																			8
50																																			1
49																																			3
48																																			1
47																																			2
46																																			
45																																			
44																																			
43																																			
42																																			
41																																			
40																																			
39																																			
38																																			
37																																			
36																																			
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16																																			
15																																			
14																																			
13																																			
12																																			
11																																			
10																																			
9																																			
8																																			

Element (X)	Σx'	Σx	X	σ <sub>a</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5201690	64974	78.9	9.368	823	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	2175186	42176	51.2	4.468	824			.1				93
Wet Bulb	1901233	39431	47.9	3.828	823							93
Dew Point	1660299	36789	44.7	4.383	823		.7					93

USAFETAC FORM 0-26-5 (OL A) PREVIOUS EDITIONS OBSOLETE



## PSYCHROMETRIC SUMMARY

73-81

OCT

STATION

STATION NAME

YEARS

**MONTH**

PAGE 1

ALL

HOURS (L, S, F.)

[illegible]



## PSYCHROMETRIC SUMMARY

73-81

NOV

PAGE 1 0000-0200  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

70793	SEATTLE/TACOMA IAP, WA
STATION	STATION NAME

73-81

NOV  
MONTH

PAGE 1

0300-0500  
HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

7793 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81  
YEARS

NOV  
MONTH

PAGE 1 7600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point					
7 / 59			.3															2	2						
6 / 57		.3	.1	.1														4	4						
5 / 55		1.1	.3	.1		.1												13	13	4					
4 / 53		1.6	.8	.4	.3		.1											25	25	10	9				
3 / 51		3.4	1.0	.4	.1	.3												41	41	20	7				
2 / 49	.1	2.6	2.1	.5	.6													48	48	40	25				
1 / 47	.5	5.9	2.9	1.3														84	84	43	40				
4 / 45	.5	6.0	4.5	.3		.1												91	92	75	47				
4 / 43	.1	8.2	1.6	.5	.1	1.0	.1											93	93	99	59				
2 / 41	.1	6.8	4.2	.4	.1	.1												93	93	105	79				
4 / 39	1.5	7.3	1.4	.4														84	84	80	86				
3 / 37	1.0	5.4	1.3	.4	.1													65	65	102	91				
7 / 35	1.9	3.7	.1															40	40	64	101				
3 / 33	1.6	2.8	.6	.3														42	42	52	72				
2 / 31	1.1	2.3	.5	.4														34	34	41	53				
5 / 29	.5	1.6	.6	.3														24	24	23	38				
7 / 27		.3		.4														5	5	15	19				
7 / 25		.1	.1															2	2	12	13				
2 / 23		.3																2	2	3	6				
2 / 21			.3															2	2	4	16				
7 / 19																				2	14				
7 / 17																					5				
1 / 15																					3				
7 / 13																					4				
1 / 11																					1				
7 / 9																					2				
7 / 7																					2				
7 / 5																					2				
TOTAL	0.159	1.22	.7	5.9	1.4	1.6	.3											794	795	794	794				

FORM 0-26-5 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JAN 64

USAFETAC



## PSYCHROMETRIC SUMMARY

YEARS

NOV

PAGE 1

0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																											TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point										
4 / 62				.1														1	1												
/ 61			.4		.3													5	5												
/ 59			.5	.3														6	6	1											
/ 57		.1	.5	.8		.3												13	13	6											
5 / 55		1.3	1.1	.6	.6													29	29	5	5										
4 / 53		1.1	1.5	1.3	.4	.5												38	38	23	10										
/ 51	.3	3.7	2.1	1.1	.6		.1											63	63	24	16										
5 / 49		3.3	4.8	2.9	.6													92	92	60	32										
- / 47	.1	4.2	3.7	2.1	.1	.1	.1	.1										79	79	59	47										
4 / 45		6.4	3.5	1.3	.1	.5	.3											94	94	96	53										
4 / 43		5.7	6.2	.6	.6	.6												109	109	109	60										
2 / 41	.3	6.3	3.7	.5	.3													87	87	92	67										
4 / 39	1.3	3.7	2.1	.8	.3													64	64	112	92										
3 / 37	1.1	3.0	1.1	.1														42	42	70	114										
/ 35	1.1	1.4	.8	.4	.3													31	31	58	84										
3 / 33	.3	1.4	1.7	.3														23	23	29	57										
2 / 31	.1	.5	.1	.5	.3													12	12	21	41										
/ 29		.3		.3														4	4	15	18										
/ 27		.1		.1														2	2	6	17										
/ 25																				2	20										
/ 23																				3	8										
2 / 21																				1	7										
/ 19																					7										
/ 17																					4										
1 / 15																					8										
/ 13																					1										
1 / 11																					2										
/ 9																					1										
/ 7																					3										
TOTAL	4.4	42.3	32.5	13.7	4.4	2.0	.5	.1											794		794										
																			794		794										

Element (X)	Σx'	Σx	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4978936	61942	78.0	13.599	794	≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1647868	35828	45.1	6.271	794		2.0					90
Wet Bulb	1434521	33407	42.1	6.042	794		5.7					90
Dew Point	1212860	30410	38.3	7.793	794		15.5					90



## PSYCHROMETRIC SUMMARY

**YEARS**

PAGE 1 NOV  
MONTH 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point				
7 / 69					.1	.1												2	2						
6 / 65				.1	.4	.1												5	5						
4 / 63				.4	.3	.1												6	6						
7 / 61			.8	.3	.1													9	9	2					
7 / 59			.6	.5	.4	.3		.1										15	15	1					
7 / 57		.6	.8	.8	.8	.3												25	25	10					
5 / 55		1.3	1.3	1.1	1.0	1.0	.4											48	48	17	9				
4 / 53	.1	1.1	3.0	2.3	1.6	.4	.3											70	70	27	11				
7 / 51	.1	1.9	3.7	4.2	1.0		.1											87	87	38	24				
5 / 49	.1	4.0	3.5	3.4	.5		.1											97	97	60	34				
7 / 47		3.8	4.0	1.9	.6	.5	.3											88	89	100	62				
4 / 45		4.2	6.0	2.4	.4	.4												106	106	118	46				
4 / 43		4.7	4.4	2.3	.5	.5												98	98	104	67				
2 / 41		4.0	1.6	1.8	.4													62	62	108	97				
7 / 39	.1	3.5	1.1	.3	.1													41	41	86	96				
3 / 37	.1	.5	.4	.1	.3													11	11	56	126				
7 / 35		.5	.6	.1	.5													14	14	30	70				
3 / 33		.4	.1	.4	.4													10	10	13	26				
7 / 31																				10	46				
7 / 29																				5	19				
7 / 27																				7	5				
7 / 25																				2	20				
7 / 23																					5				
2 / 21																					4				
7 / 19																					9				
7 / 17																					4				
1 / 15																					4				
7 / 13																					3				
1 / 11																					1				
7 / 9																					3				
7 / 7																					3				
TOTAL	.630	.532	.021	.5	9.6	3.9	1.6	.3											794	795	794				
																			794		794				

Element (X)	Σx <sup>1</sup>	Σx	Σ	Σ <sub>a</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	43929.6	5789.3	72.9	14.739	794	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1864178	38192	48.0	6.088	795			2				90
Wet Bulb	1561181	34909	44.0	5.767	794		2.7					93
Dew Point	1270531	31143	39.2	7.862	794		14.3					90



## PSYCHROMETRIC SUMMARY

73-81

YEARS

NOV  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
4 / 77						.1												1	1			
6 / 67					.1		.1											2	2			
6 / 65					.4	.1												4	4			
4 / 63					.4		.1											4	4	1		
7 / 51			.5	.1	.3	.1												8	8	1		
7 / 59			.4	.3	.5	.1												10	10	1		
7 / 57		.4	.6	.6	.8	.5		.3										25	25	10	1	
5 / 55		.9	2.1	1.1	1.1	.6	.1	.1										49	49	16	7	
4 / 53	.3	1.8	2.3	1.1	.8	.3	.1											52	52	21	11	
2 / 51		3.0	3.5	2.5	.5	.1	.1											78	78	41	20	
5 / 47		3.1	4.8	2.6	.9	.3	.3											95	95	65	36	
7 / 47		3.9	5.1	3.1	.5	.5	.3											107	107	73	59	
4 / 45		5.3	4.6	3.1	.5	.1	.1											110	110	111	55	
4 / 43		4.1	4.9	2.4	.3	.5	.3											99	100	105	57	
2 / 41	.1	3.6	2.4	1.4	.6	.1												66	66	117	96	
4 / 37		2.3	1.4	.3	.4													34	34	97	87	
3 / 37		2.7	.5	.4	.1													24	24	55	113	
7 / 35		.4	.8	.1	.4													13	13	32	80	
3 / 33			.4	.4	.3													8	8	21	43	
2 / 31		.4	.1	.4	.1													8	8	10	28	
7 / 27																				9	28	
7 / 27																				5	17	
7 / 25																				5	17	
7 / 23																				1	8	
2 / 21																					4	
7 / 17																					7	
1 / 15																					5	
7 / 13																					3	
1 / 11																					9	
7 / 7																					3	
TOTAL	.4	31.1	34.4	19.9	8.8	3.5	1.5	.4										797	798	797	797	
Element (X)	Z <sub>X'</sub>	Z <sub>X</sub>	Z	Z <sub>s</sub>	No. Obs.				Mean No. of Hours with Temperature						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total	
Rel. Hum.	4422131	58233	73.1	14.4	98	797										≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1826917	37865	47.4	6.1	58	798										≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Wet Bulb	1536039	34667	43.5	5.9	45	797										≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dew Point	1249091	30883	38.7	8.1	14	797										≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

7-743 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81

YEARS

NOV

MONTH

PAGE 1 1800-2000

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL																		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																					
7 / 61			.1	.1	.1	.1												4	4																							
7 / 59		.4	.5	.5	.1													12	12																							
7 / 57		.9	.5	.5	.1	.1	.1											18	18	7	1																					
5 / 55		.6	.9	.2	.1	.1		.2										18	19	12	5																					
4 / 53		1.6	2.9	.9	.2		.1											39	39	13	9																					
7 / 51	.4	4.7	2.9	1.1	.7	.1	.2											82	62	34	18																					
7 / 49		3.7	3.0	1.9														63	63	61	32																					
7 / 47		4.7	3.0	2.7	.4	.5												85	85	59	55																					
7 / 45		6.5	5.7	1.9	.5	.4												114	114	91	50																					
4 / 43		7.0	4.6	.9	.1		.2											103	103	101	59																					
7 / 41		5.9	4.5	.7	.9	.1												97	97	124	86																					
4 / 39	.5	5.2	1.7	.9	.1	.1												69	69	98	97																					
3 / 37	.4	2.7	1.1	.5	.1													39	39	78	91																					
7 / 35		1.5	1.7	.4														23	23	37	105																					
3 / 33		.6	1.4	.4	.1													20	20	41	42																					
7 / 31		.4	.4	.6														11	11	16	45																					
7 / 29			.2	.2														4	4	15	25																					
7 / 27																				8	14																					
7 / 25																				4	19																					
2 / 23																				2	12																					
27 / 21																					10																					
7 / 19																					5																					
7 / 17																					8																					
1 / 15																					1																					
7 / 13																					5																					
1 / 11																					5																					
7 / 9																					1																					
7 / 3																					1																					
TOTAL	1.2	45.8	32.8	13.7	3.7	1.6	.7	.2										801	802	801	801																					

USAFETAC FORM 0-26-5 (O.L.A.) REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
59		.3	.1	.3	.1													6	6						
57		1.1	.5	.5														17	17	3	2				
55		1.7	.6	.4	.4	.3		.1										22	22	11	5				
53		1.7	1.0	.5	.1			.3										23	23	12	10				
51	.3	4.1	1.8	1.1	.5	.3												64	64	29	8				
49	.1	3.8	2.5	1.8		.4												68	68	56	33				
47		5.3	3.3	1.7		.3												78	78	50	55				
45	.1	6.6	4.3	.6	1.7	.1												102	102	90	46				
43		9.7	2.8	.6		.5	.3											105	105	94	49				
41		6.5	5.9	.8	.3	.1												108	108	114	93				
39	.5	5.1	2.9		.4													71	71	89	96				
37	.9	3.6	1.5	.3														50	50	101	94				
35	.1	1.8	.8	.5														25	25	46	95				
33		1.6	1.9	.6														33	33	35	49				
31		1.1	1.7	.3														19	19	27	41				
29				.1														1	1	26	35				
27			.3	.4														5	5	6	16				
25																				2	19				
23																				3	7				
21																				3	13				
19																					11				
17																					8				
15																					1				
13																					4				
11																					4				
9																					2				
7																					1				
TOTAL	2.452	131.3	9.7	2.8	1.9	.3	.4											797	797	797	797				

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Num.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 90 F	≥ 93 F	
Dry Bulb	1592183	35281	44.3	6.179	797		2.8					90
Wet Bulb	1400419	33041	41.5	6.205	797		7.6					90
Dew Point	1194411	30159	37.8	8.173	797		18.3					90

0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC



## PSYCHROMETRIC SUMMARY

73-81

NOV  
MONTH

PAGE 1

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
4 / 73						.0												1	1																
5 / 69					.1	.0												2	2																
6 / 67					.1	.0	.0											2	2																
6 / 65				.0	.1	.0												9	9																
4 / 63				.0	.1	.0	.0											11	11	1															
5 / 61			.2	.0	.1	.0												26	26	3															
7 / 59		.1	.3	.2	.1	.0		.0										51	51	3															
6 / 57		.5	.4	.4	.2	.1	.0	.0										112	112	36															
5 / 55		1.0	.9	.6	.4	.3	.1	.1										217	218	76															
4 / 53	.0	1.5	1.6	.9	.4	.1	.1	.0										299	299	116															
2 / 51	.1	3.5	2.6	1.4	.5	.2	.1											533	533	246															
1 / 49	.1	3.4	3.0	1.8	.4	.1	.1	.0										564	564	439															
7 / 47	.1	4.7	3.5	1.6	.3	.3	.1	.0										669	670	491															
4 / 45	.3	6.2	4.3	1.2	.4	.2	.0											802	803	720															
4 / 43	.1	6.0	3.8	1.1	.4	.6	.1											832	833	836															
2 / 41	.1	5.8	3.6	.9	.4	.2												692	693	847															
4 / 39	.7	4.9	1.9	.3	.2	.0												503	505	728															
3 / 37	.8	3.6	1.0	.3	.1													367	367	645															
2 / 35	.7	1.9	.6	.3	.2													231	232	407															
3 / 33	.3	1.4	.9	.4	.1													194	194	278															
2 / 31	.3	1.1	.5	.3	.1													144	144	185															
1 / 29	.1	.4	.3	.2														59	59	143															
7 / 27	.1	.1	.0	.1														17	17	72															
1 / 25		.0	.0	.0														6	6	45															
2 / 23		.0	.0															5	5	17															
2 / 21			.0															2	2	9															
1 / 19																				7															
1 / 17																																			
1 / 15																																			
1 / 13																																			
1 / 11																																			
1 / 9																																			
1 / 7																																			
1 / 5																																			
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		Σ <sub>A</sub>		No. Obs.		Mean No. of Hours with Temperature																								
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total												
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			



## PSYCHROMETRIC SUMMARY

777930	SEATTLE/TACOMA IAP, WA
STATION	STATION NAME

73-81

NOV

MONTH

YEARS

PAGE 2

ALL

**HOURS 11.30. 1. 2.**

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

7 793 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81  
YEARS

DEC  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL							
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																	
7 / 59		.2																														2	2				
5 / 57		.1																														1	1	3	3		
5 / 55		.5	.2																													6	6				
4 / 53		2.3	.8																													26	26	6	1		
2 / 51	.1	2.3	1.6																													33	33	24	14		
5 / 49		2.9	2.9	.1	.1	.1																										51	51	27	23		
4 / 47		4.2	2.2	.1	.7																											60	60	46	27		
4 / 45	.1	8.6	2.5	.5	1.2	.4																										110	110	60	40		
4 / 43	.1	7.9	2.9	1.0		.1																										99	99	106	57		
2 / 41		5.8	5.9	.1	1.1																											106	106	83	83		
4 / 39		5.5	4.7	.6	.2																											91	91	101	88		
3 / 37	.1	5.9	1.8	.2	.4																											70	70	94	64		
3 / 35	.5	5.9	.7	.2																												61	61	81	78		
3 / 33	.7	4.6	1.3	.1																												56	56	97	73		
3 / 31	1.1	2.7	.2																													32	32	48	129		
3 / 29	.2	.4	.1																													6	6	29	43		
3 / 27		.2																														2	2	5	37		
3 / 25		.1	.1	.1																												3	3	3	21		
2 / 23			.1																													1	1		6		
2 / 21			.1																													1	1	2	9		
3 / 19			.1																													1	1	1	10		
3 / 17			.6																													5	5	1	4		
1 / 15			.1																													1	1	3	2		
1 / 13																																			4	1	
1 / 11																																				2	
1 / 9																																				2	
1 / 7																																				1	
1 / 5																																				2	
1 / 3																																				3	
- 1 / -3																																				3	
TOTAL	2.06	0.32	9.4	3.2	3.6	.6																											824	824	824		
																												824		824							
Element (X)	Σ x'	Σ x	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature																															
Rel. Hum.	5506384	56642	80.9	11.904	824	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																										
Dry Bulb	1470554	34416	41.8	6.342	824					5.9																											
Wet Bulb	1309852	32433	39.4	6.381	824					10.8																											
Dew Point	1126092	29726	36.1	8.079	824					3	30.8																										

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC



## PSYCHROMETRIC SUMMARY

7793	SEATTLE/TACOMA IAP, WA
STATION	STATION NAME

73-81

YEARS

DEC

PAGE 1 0300-0500

HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
/ 59		.4																3	3															
/ 57		.4																3	3	3	1													
5 / 55																				3	2													
4 / 53		1.6	.5	.2														19	19		3													
2 / 51		2.3	1.8															34	34	16	1													
5 / 49		3.9	2.1	.2	.2													53	53	30	27													
/ 47		4.6	3.0	.5	.2	.1												73	71	46	26													
4 / 45	.1	6.2	2.4	.2	.3	.2	.1											84	85	65	36													
4 / 43	.2	7.4	2.8	1.1														95	95	88	56													
2 / 41	.1	7.7	4.8	.5	.6													108	108	93	94													
4 / 39	.1	5.5	3.9	.1	.2													81	81	85	67													
3 / 37	.2	6.5	1.9	.4	.1													76	76	93	69													
/ 35	.5	5.3	1.9	.2	.1													67	67	93	81													
3 / 33	1.1	5.3	1.6	.1														67	67	83	72													
2 / 31	1.2	2.8	.6															36	36	72	110													
/ 29	.4	1.2																13	13	27	82													
/ 27	.1	.4																4	4	13	34													
/ 25			.1															1	1	3	18													
2 / 23			.1															1	1		6													
2 / 21			.1															1	1	2	10													
/ 19			.4															3	3	1	12													
/ 17			.4															2	3		3													
1 / 15			.4															3	3	3	3													
/ 13																				6														
1 / 11																					2													
/ 9																					1													
/ 7																					1													
/ 5																					5													
/ -1																					1													
- / -3																					1													
- / -5																					1													
TOTAL	3.76	0.72	8.8	3.6	2.4	.4	.1												825	827		825												
																			825		825													
Element (X)	Σx'	Σx	Σ	Σ²	No. Obs.																	Mean No. of Hours with Temperature												
Rel. Num.	5552125	67003	81.2	11.576	825																	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total						
Dry Bulb	1441691	34099	41.2	6.576	827																		7.3					93						
Wet Bulb	1283070	32088	38.9	6.519	825																		14.3					93						
Dew Point	1103308	29428	35.7	8.065	825																	.3	32.7					93						



## PSYCHROMETRIC SUMMARY

73-81

DEC  
MONTH

PAGE 1 0600-0800

**HOURS (L - S - T.)**

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
57 / 57		.4																3	3	2	1			
55 / 55		.4	.1															4	4	2	2			
47 / 53		.5	1.1	.1														13	13	2	3			
51 / 51		2.2	2.1	.1														36	36	11	2			
49 / 49		3.5	2.1	.4														49	49	31	12			
47 / 47		4.6	2.7	.2	.7	.4		.1										72	72	47	44			
45 / 45		6.3	3.3	.7	.5	.1												87	87	61	27			
43 / 43	.2	7.8	1.7	.6														85	85	85	59			
41 / 41	.4	6.4	3.9	.2	.6													94	94	91	65			
39 / 39	.4	5.7	4.0	.2	.1													80	80	88	90			
37 / 37	.4	6.6	2.2	.2	.4													80	80	82	69			
35 / 35	.4	7.5	1.5	.1														77	77	89	71			
33 / 33	.2	5.5	1.8	.4														65	65	91	83			
31 / 31	.9	3.4	.5															39	39	67	102			
29 / 29	.4	1.7	.1															18	18	35	66			
27 / 27	.2	.2																4	4	19	51			
25 / 25			.1															1	1	3	23			
23 / 23			.1															1	1		7			
21 / 21																				2	9			
19 / 19		.1	.4															4	4		13			
17 / 17			.7															6	6	1	3			
15 / 15																				3	3			
13 / 13																				6				
11 / 11																					4			
9 / 9																					6			
7 / 7																					2			
5 / 5																					1			
3 / 3																					1			
1 / 1																					1			
-1 / -1																					1			
-3 / -3																					1			
-5 / -5																					1			
-7 / -7																					1			
TOTAL	3.	61.9	28.4	3.4	2.3	.5		.1										818		818	818			



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

71793 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81  
YEARS

DEC  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
/ 59			.1																	1	1			
/ 57		.1	.2																	3	3			
5 / 55		.4	.6	.2																10	10	5		
4 / 53		.4	.7	.2																11	11	2	5	
2 / 51		1.6	2.9	.5		.1														42	42	10	3	
5 / 49		4.3	2.8	1.3	.4	.1														73	73	37	15	
/ 47		4.5	4.3	1.0	.5	.4														87	87	57	35	
4 / 45		6.2	5.5	1.1	.2	.1														108	108	74	50	
4 / 43	.1	6.6	4.4	.7		.1														98	98	100	49	
2 / 41		3.9	3.8	1.0	.4															74	74	111	78	
4 / 39	.1	5.8	4.7	1.0	.2															98	98	82	104	
3 / 37		5.7	2.1	.4	.1															68	68	90	78	
/ 35	.4	5.7	2.8	.2																75	75	92	73	
3 / 33	.5	2.6	1.0	.1																34	35	79	86	
2 / 31	.7	1.5	.2																	20	20	47	95	
/ 29		.7	.1	.1																8	8	14	58	
2 / 27		.1																		1	1	9	35	
/ 25			.2	.1																3	3	1	19	
2 / 23				.1																1	1	2	7	
2 / 21				.1																1	1	2	8	
/ 19			.4	.1																4	4	1	7	
/ 17			.1	.1																2	2	1	3	
1 / 15																						4	2	
1 / 13																						2	1	
/ 11																							2	
/ 9																							3	
/ 7																							3	
/ 5																							1	
/ 3																							2	
/ 1																							3	
- / -1																							1	
- / -3																							2	
- / -5																								
- / -7																								
T TAL	1.8	50.0	37.0	8.5	1.8	.9															822	823	822	

USAFETAC FORM 0-26-5 (OL A) REVISD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JAN 64



## PSYCHROMETRIC SUMMARY

DEC  
MONTH

PAGE 1      1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																											TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point											
1 / 61				.1														1	1												
1 / 59			.1	.4														4	4												
2 / 57		.4	.4															6	6	1											
5 / 55		.1	.5	.7	.2													13	13	5											
4 / 53		.9	1.5	.9	.9													33	33	7	4										
2 / 51		2.9	2.5	1.5	1.5	.4		.2										73	73	16	10										
5 / 47		4.8	6.4	1.8	.1	.4	.2											112	112	54	20										
1 / 47		2.7	6.3	2.7		.4												98	98	67	44										
4 / 45		5.6	4.6	2.6	.1													101	101	111	56										
4 / 43		3.4	4.4	2.8	.2	.1												90	90	112	51										
2 / 41		4.3	5.6	2.9														105	105	96	97										
4 / 37	.1	2.3	3.4	1.7	.5													66	66	101	84										
3 / 37		5.2	1.5	.1														55	55	104	87										
2 / 35	.2	2.2	1.3															31	31	77	90										
3 / 33		1.1	.2															11	11	35	74										
2 / 31	.1		.4	.2	.2													8	8	24	73										
2 / 29				.1														1	1	2	42										
2 / 27				.2	.1													3	3	3	37										
1 / 25				.1														1	1		17										
2 / 23				.2														2	2	3	4										
2 / 21			.1															1	1	2	5										
1 / 19																				3	6										
1 / 17																					2										
1 / 15																					1										
1 / 13																					1										
1 / 7																					1										
1 / 3																					3										
1 / 1																					3										
-1 / -5																					2										
-1 / -7																					1										
TOTAL	.5	36.0	38.7	19.3	3.9	1.2	.2	.2										815	815	815	815										

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4738223	61229	75.1	13.032	815	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1666721	36549	44.8	5.756	815		1.8					93
Wet Bulb	1426742	33774	41.4	5.698	815		4.5					93
Dew Point	1170749	30225	37.1	7.824	815	.3	22.6					93



## PSYCHROMETRIC SUMMARY

7743	SEATTLE/TACOMA IAP, WA
STATION	STATION NAME

73-81

YEARS

DEC  
MONTH

PAGE 1      1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
/ 61				.1														1	1													
/ 59				.5														5	5													
/ 57		.2	.1															3	3	1												
5 / 55		.2	.9	.5	.2													15	15	5	1											
4 / 53	.1	1.5	1.6	.6														31	31	7	4											
2 / 51		2.3	2.5	1.0	.7	.1	.1											55	55	23	7											
5 / 49		4.2	3.9	2.1	.2	.5	.2											91	91	41	24											
4 / 47		5.3	5.8	1.7	.2	.2	.1											109	109	64	38											
4 / 45		6.1	5.9	.9	.2	.1	.1											109	109	104	60											
4 / 43		4.1	6.1	2.0	.5													103	103	111	51											
2 / 41		3.4	5.2	2.3	.1	.2												92	92	97	80											
4 / 39		4.1	3.9	1.2	.1													76	77	91	89											
3 / 37	.5	4.8	2.0	.7	.1	.1												67	67	107	72											
1 / 35	.2	2.1	1.0		.1													28	28	80	88											
3 / 33	.1	1.0	.2															11	11	40	84											
2 / 31		.2	.1															3	3	23	79											
1 / 29		.1	.1		.1													3	3	3	34											
2 / 27			.1	.2	.1													4	4	3	27											
1 / 25				.2	.1													3	3	2	21											
2 / 23				.5														4	4		4											
2 / 21			.1															1	1	5	5											
1 / 19																				5	4											
1 / 17																				2	3											
1 / 15																					3											
1 / 11																					3											
/ 9																					1											
/ 3																					4											
/ 1																					5											
- / -3																					1											
- / -5																					2											
TOTAL	1.0	39.7	39.7	14.6	3.1	1.4	.6											814	815	814	814											



## PSYCHROMETRIC SUMMARY

DEC

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1800-2000

HOURS (L, S, T.)

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

DEC  
MONTH

PAGE 2      1800-2000  
HOURS (L. S. T.)

[illegible]

**USAFETAC**  
POLICE  
AR 64  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS POLICE ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

7 793 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81

YEARS

DEC  
MONTH

PAGE 1 2100-2300  
HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
7 / -1			.1															1		1															
7 / -9		.2																2		2															
7 / -57				.2														2		2		3													
5 / -55		.2	.6															7		7		3													
27 / 53		1.7	.7	.1														21		21		8													
7 / 51		2.7	2.7															38		38		21	13												
5 / 49		2.7	3.2	.1	.4													52		52		30	20												
7 / 47		3.9	3.2	.7	1.5													76		76		46	27												
7 / 45	.2	7.8	4.7	.9	.4	.4												112		112		67	47												
4 / 43		7.7	3.3	1.7		.4												101		101		105	59												
27 / 41		5.5	6.1	1.6														108		108		94	75												
4 / 39		4.5	3.9	.9	.2	.2												80		80		95	93												
3 / 37	.1	5.0	1.7	.1	.1													58		58		99	65												
7 / 35	.2	6.2	1.5	.2	.4	.2												72		72		79	77												
3 / 33	.5	4.1	1.1	.2	.1													50		50		80	80												
7 / 31	.5	1.3	.4															18		18		43	107												
7 / 29	.1	.4		.4														7		7		21	57												
7 / 27		.1																1		1		10	32												
7 / 25		.1	.2															3		3		2	19												
7 / 23		.1																1		1		5	2												
27 / 21			.4															3		3		2	9												
7 / 19			.9															7		7			8												
7 / 17																					1	3													
1 / 15																					9	1													
7 / 13																						2													
1 / 11																						3													
7 / 9																						3													
7 / 7																						4													
7 / 5																						1													
7 / 3																						2													
7 / 1																						4													
7 / -1																						1													
7 / -7																						3													
Element (X)	Σ X'		Σ X		X̄		s <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature						Total																		
Ref. Num.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																			
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			



## PSYCHROMETRIC SUMMARY

YEARS

DEC  
MONTH

PAGE 2      2100-2300  
HOURS 11-5-11

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
1.7	54.4	32.9	6.8	3.0	1.7														820	820	820														

Element (X)	Σ x'	Σ x	Σ	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5254924	64802	79.0	12.783	820	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1494917	34621	42.2	6.366	820		4.5					93
Wet Bulb	1316813	32429	39.5	6.474	820		10.5					93
Dew Point	1116253	29411	35.9	8.656	820	.5	29.6					93

ALL OTHERS ARE AVAILABLE IN PREVIOUS EDITIONS OF THIS FORM

0-26-5 (OL A)

FORM 1041-A

**USAFETAC**



## PSYCHROMETRIC SUMMARY

73-81

DEC

STATION

STATION NAME

**YEARS**

MONTH

PAGE 1

ALL

HOURS (L - S - T - )

[illegible]



## PSYCHROMETRIC SUMMARY

73-81

**YEARS**

DEC  
MONTH

PAGE 2

ALL  
HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
- / -7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**USAFETAC**



## PSYCHROMETRIC SUMMARY

**HOURS (L - S - T.)**

[illegible]



## PSYCHROMETRIC SUMMARY

**YEARS**

A11

FROM FM

PAGE ?

All

**HOURS 11 - 5 - 7**

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point												
+ / 31	.2	.5	.2	.1	.1	.0												862	863	1344	3713												
+ / 29	.1	.3	.1	.1	.1													454	454	848	1981												
+ / 27	.	.1	.1	.1	.0													240	242	552	1129												
+ / 25	.	.0	.0	.1	.0													120	121	345	873												
+ / 23	.	.0	.0	.0														58	58	201	440												
2 / 21		.0	.0	.0														64	64	147	462												
+ / 19		.0	.0	.0														51	51	92	402												
+ / 17		.0	.0	.0														19	19	74	212												
1 / 15		.0	.0															5	5	59	188												
+ / 13																				20	144												
1 / 11																					185												
+ / 9																					127												
+ / 7																					98												
+ / 5																					58												
+ / 3																					111												
+ / 1																					126												
+ / -1																					68												
- / -3																					55												
- / -5																					38												
- / -7																					32												
- / -9																					10												
TOTAL	1.728	6.29	5.15	5.5	9.7	6.3	3.9	2.1	1.2	.7	.4	.2	.1	.0	.0	.0		77503		77418													
																		77418		77418													
								</																									



CLIMATE CLIMATOLOGY BRANCH  
USAFETAC  
WEATHER SERVICE/MAC

# MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

7 1937 SEATTLE/TACOMA IAP, WA

73-81

STATION	STATION NAME	YEARS												
MRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
MEAN	38.8	41.6	42.6	45.5	50.3	55.0	59.1	59.1	56.6	49.7	43.5	41.8	48.7	
S D	7.006	5.607	4.824	5.181	4.590	4.519	4.463	4.516	4.011	4.344	6.211	6.342	8.762	
TOTAL OBS	822	754	824	796	825	798	829	823	798	817	781	824	9691	
MEAN	38.1	40.8	41.5	44.0	48.6	53.2	56.7	57.0	54.9	48.5	42.7	41.2	47.3	
S D	7.300	5.675	4.868	4.918	4.275	3.837	3.556	3.729	3.703	4.529	6.374	6.576	8.286	
TOTAL OBS	827	752	829	792	825	800	821	828	795	815	796	827	9707	
MEAN	37.7	40.4	41.3	45.0	50.7	55.8	59.0	58.1	55.5	48.6	42.3	41.0	48.0	
S D	7.399	5.801	4.820	5.092	4.492	4.621	4.389	4.361	4.124	4.584	6.597	6.640	9.083	
TOTAL OBS	813	743	830	797	817	787	822	813	785	817	795	818	9637	
MEAN	39.4	43.3	45.6	50.2	56.1	61.2	65.1	63.7	61.5	53.1	45.1	42.4	52.3	
S D	6.955	5.630	4.887	6.007	5.744	6.275	6.200	6.355	5.766	5.106	6.271	6.271	10.601	
TOTAL OBS	822	752	823	804	823	799	823	824	801	822	794	823	9710	
MEAN	42.5	47.1	49.7	54.8	60.4	66.2	71.0	69.5	67.0	57.5	48.0	44.8	56.6	
S D	6.384	5.657	5.562	7.121	6.847	7.428	7.127	7.762	7.198	5.874	6.088	5.756	11.775	
TOTAL OBS	818	744	821	792	816	795	821	819	794	823	795	815	9653	
MEAN	42.4	47.2	50.2	55.8	61.3	67.4	73.1	71.9	67.7	57.4	47.4	44.4	57.2	
S D	6.335	5.565	5.940	7.591	7.485	8.277	7.832	8.634	7.773	6.101	6.158	5.821	12.663	
TOTAL OBS	824	746	822	798	825	799	820	822	798	827	798	815	9694	
MEAN	40.5	44.0	46.5	51.8	57.2	63.5	69.2	67.6	62.4	53.2	45.3	42.9	53.7	
S D	6.536	5.338	5.282	6.723	6.635	7.134	7.280	7.637	6.095	4.888	6.049	6.191	11.619	
TOTAL OBS	831	746	820	796	818	792	826	823	796	825	802	823	9697	
MEAN	39.7	42.8	44.1	48.3	52.8	58.0	62.8	62.2	59.0	51.2	44.3	42.2	50.7	
S D	6.683	5.354	4.769	5.721	5.220	5.242	5.385	5.688	4.740	4.468	6.179	6.366	9.662	
TOTAL OBS	825	747	826	805	825	799	824	826	796	824	797	820	9714	
MEAN	39.9	43.4	45.2	49.4	54.7	60.0	64.5	63.6	60.6	52.4	44.8	42.6	51.8	
S D	7.042	6.085	6.078	7.419	7.319	7.874	8.253	8.167	7.271	6.047	6.541	6.375	11.012	
TOTAL OBS	6581	5984	6595	6380	6574	6369	6586	6578	6363	6570	6358	6565	77503	



NATIONAL CLIMATOLOGY BRANCH  
AFETAC  
U.S. WEATHER SERVICE/MAC

# MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

STATION SEATTLE/TACOMA IAP, WA

73-81

STATION

STATION NAME

YEARS

HRS	1-5	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0-12	MEAN	35.5	38.7	39.5	42.2	46.4	50.4	54.2	55.4	53.2	47.0	40.9	39.4	45.3
	S D	7.371	5.493	4.362	4.216	3.728	3.382	3.273	3.245	3.361	3.896	6.230	6.381	6.064
	TOTAL OBS	820	754	824	793	822	798	827	822	797	815	778	824	9674
	MEAN	35.4	38.2	38.8	41.3	45.5	49.5	53.0	54.3	52.3	46.2	40.4	38.9	44.5
	S D	7.585	5.609	4.517	4.237	3.701	3.226	3.056	3.153	3.451	4.055	6.309	6.519	7.935
	TOTAL OBS	827	751	828	792	823	799	820	828	794	815	795	825	9697
	MEAN	35.1	38.0	38.7	42.0	46.9	51.3	54.4	55.0	52.6	46.2	40.0	38.6	44.9
	S D	7.686	5.652	4.521	4.257	3.661	3.412	3.229	3.321	3.567	4.101	6.417	6.557	8.383
	TOTAL OBS	812	742	830	797	815	787	819	811	784	817	794	818	9626
	MEAN	36.3	40.0	41.5	45.1	50.0	54.1	57.4	57.8	55.9	49.1	42.1	39.7	47.5
	S D	7.257	5.338	4.153	4.326	4.052	3.939	3.792	3.708	3.626	3.907	6.042	6.175	8.755
	TOTAL OBS	820	751	823	804	821	799	823	823	800	822	794	822	9702
	MEAN	38.5	42.3	43.7	47.3	51.8	56.2	59.9	60.2	58.2	51.5	44.0	41.4	49.6
	S D	6.717	5.071	4.136	4.740	4.336	4.286	3.967	4.042	3.903	3.873	5.767	5.698	8.827
	TOTAL OBS	618	741	816	792	815	794	820	818	792	821	794	815	9636
	MEAN	38.5	42.3	43.7	47.5	51.9	56.5	60.5	60.8	58.2	51.2	43.5	41.2	49.7
	S D	6.734	5.001	4.341	4.721	4.353	4.379	4.063	4.136	4.065	4.094	5.945	5.901	9.067
	TOTAL OBS	824	746	822	798	824	798	819	821	797	827	797	814	9687
	MEAN	37.1	40.3	41.6	45.4	49.8	54.6	58.8	59.0	55.8	48.9	42.2	40.0	47.8
	S D	7.001	5.105	4.331	4.476	4.208	3.997	4.011	3.887	3.769	3.841	6.051	6.218	8.929
	TOTAL OBS	828	745	820	796	817	791	826	820	796	823	801	822	9685
	MEAN	36.4	39.5	40.4	43.7	47.7	52.0	56.0	56.8	54.3	47.9	41.5	39.5	46.4
	S D	7.045	5.222	4.241	4.264	3.818	3.430	3.444	3.394	3.426	3.828	6.205	6.474	8.328
	TOTAL OBS	825	746	826	805	825	799	823	826	796	823	797	820	9711
	MEAN	36.6	39.9	41.0	44.3	48.7	53.1	56.8	57.4	55.1	48.5	41.8	39.8	47.0
	S D	7.280	5.545	4.713	4.952	4.611	4.512	4.470	4.290	4.263	4.397	6.262	6.315	8.753
	TOTAL OBS	6574	5976	6589	6377	6562	6365	6577	6569	6356	6563	6350	6560	77418
ALL HOURS	MEAN	36.6	39.9	41.0	44.3	48.7	53.1	56.8	57.4	55.1	48.5	41.8	39.8	47.0
	S D	7.280	5.545	4.713	4.952	4.611	4.512	4.470	4.290	4.263	4.397	6.262	6.315	8.753
	TOTAL OBS	6574	5976	6589	6377	6562	6365	6577	6569	6356	6563	6350	6560	77418



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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

7 1937 SEATTLE/TACOMA IAP, WA

73-81

STATION		STATION NAME												YEARS											
HRS LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL											
-	MEAN	30.5	34.7	35.4	38.2	42.4	46.3	50.1	52.5	50.3	44.3	37.5	36.1	41.6											
	S D	11.743	7.667	5.825	4.946	4.256	3.796	3.719	3.427	4.084	4.477	8.250	8.079	9.354											
	TOTAL OBS	820	754	824	793	822	798	827	822	797	815	778	824	9674											
-	MEAN	30.5	34.4	35.2	38.0	42.2	46.2	49.8	52.1	50.1	43.9	37.3	35.7	41.3											
	S D	11.585	7.606	5.730	4.748	4.133	3.689	3.533	3.364	3.972	4.489	8.071	8.065	9.259											
	TOTAL OBS	827	751	828	792	823	799	820	828	794	815	795	825	9697											
-	MEAN	30.3	34.3	35.3	38.5	43.2	47.3	50.7	52.6	50.3	43.9	37.0	35.4	41.6											
	S D	11.591	7.442	5.577	4.687	3.989	3.605	3.439	3.374	3.982	4.661	7.890	8.151	9.450											
	TOTAL OBS	812	742	830	797	815	787	819	811	784	817	794	818	9626											
- 1	MEAN	31.0	35.5	36.5	39.6	44.2	48.1	51.6	53.5	51.6	45.5	38.3	36.1	42.6											
	S D	11.368	7.479	5.603	4.781	4.376	4.039	3.774	3.396	3.911	4.442	7.793	7.825	9.441											
	TOTAL OBS	820	751	823	804	821	799	823	823	800	822	794	822	9702											
1 - 14	MEAN	32.1	36.4	36.7	39.6	44.0	48.2	51.9	53.7	51.7	46.0	39.2	37.1	43.1											
	S D	11.390	7.451	5.965	5.266	4.778	4.724	4.059	3.855	4.413	4.459	7.862	7.824	9.377											
	TOTAL OBS	818	741	816	792	815	794	820	818	792	821	794	815	9636											
- 17	MEAN	32.2	36.1	35.9	38.8	43.2	47.8	51.6	53.2	51.0	45.6	38.7	36.9	42.6											
	S D	11.277	7.797	6.571	5.650	5.129	4.912	4.137	4.313	4.896	4.752	8.114	8.191	9.507											
	TOTAL OBS	824	746	822	798	824	798	819	821	797	827	797	814	9687											
- 2	MEAN	31.6	35.3	35.4	38.4	42.6	47.1	51.2	52.8	50.6	44.8	38.3	36.2	42.1											
	S D	11.254	7.639	6.471	5.645	5.016	4.486	4.279	4.077	4.626	4.472	8.033	8.400	9.512											
	TOTAL OBS	828	745	820	796	817	791	826	820	796	823	801	822	9685											
1-23	MEAN	30.9	35.1	35.5	38.5	42.6	46.7	50.7	52.7	50.5	44.7	37.8	35.9	41.8											
	S D	11.257	7.499	6.043	5.163	4.425	3.804	3.854	3.550	4.266	4.383	8.173	8.656	9.395											
	TOTAL OBS	825	746	826	805	825	799	823	826	796	823	797	820	9711											
ALL HOURS	MEAN	31.2	35.2	35.7	38.7	43.0	47.2	50.9	52.9	50.8	44.8	38.0	36.2	42.1											
	S D	11.450	7.603	6.003	5.151	4.578	4.221	3.918	3.715	4.316	4.576	8.051	8.166	9.430											
	TOTAL OBS	6574	5976	6589	6377	6562	6365	6577	6569	6356	6563	6350	6560	77418											



## RELATIVE HUMIDITY

73-81

JAN  
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	0-02	100.0	99.0	96.1	91.5	86.5	82.6	71.3	47.0	12.2	74.3	827
	03-05	100.0	99.4	96.4	93.3	88.1	85.2	77.0	53.6	15.5	76.4	827
	06-08	100.0	99.5	97.8	92.9	87.7	85.5	77.7	52.7	15.9	76.4	812
	09-11	100.0	99.6	96.1	91.6	87.6	82.8	69.3	44.5	13.0	74.1	827
	12-14	100.0	98.7	93.9	89.5	84.5	74.3	54.2	32.2	8.1	69.3	818
	15-17	100.0	98.9	94.7	89.6	84.7	74.6	57.2	33.0	7.8	69.7	824
	18-20	100.0	98.9	96.3	92.4	86.6	80.1	68.1	37.8	10.0	72.7	828
	21-23	100.0	98.9	96.4	92.0	85.8	80.6	68.2	41.6	10.7	73.1	825
TOTALS		100.0	99.1	96.0	91.6	86.4	80.7	67.9	42.8	11.7	73.3	6574



FEB  
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	0-02	100.0	100.0	99.2	97.2	93.1	86.3	77.7	52.5	11.1	77.4	754
	3-05	100.0	100.0	99.3	98.1	93.7	88.0	80.2	57.7	15.0	79.0	751
	6-08	100.0	100.0	99.5	98.2	95.1	90.6	81.8	58.5	16.8	79.7	742
	9-11	100.0	99.9	98.8	96.8	93.5	85.9	71.5	38.9	9.3	75.1	751
	12-14	100.0	99.9	98.1	94.6	85.4	71.0	47.4	22.0	4.2	68.0	741
	15-17	100.0	99.3	97.7	94.0	84.5	68.9	44.9	22.3	4.8	67.4	746
	18-20	100.0	99.7	98.5	96.6	89.0	81.6	65.6	33.7	7.0	73.0	745
	21-23	100.0	99.9	99.1	97.9	91.4	84.2	73.6	42.9	9.8	75.5	746
TOTALS		100.0	99.8	98.8	96.7	90.7	82.1	67.8	41.1	9.8	74.4	5976



## RELATIVE HUMIDITY

MAR  
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	0-02	100.0	100.0	99.3	97.8	94.7	89.3	75.0	39.0	10.2	76.7	824
	3-05	100.0	100.0	100.0	98.9	97.3	92.8	80.8	50.6	14.4	79.3	828
	6-08	100.0	100.0	100.0	99.4	98.0	94.3	81.1	52.7	16.5	79.9	830
	9-11	100.0	100.0	99.5	97.3	93.1	80.8	58.3	25.0	5.8	71.6	823
	12-14	100.0	100.0	97.1	91.9	77.2	55.5	35.0	11.6	2.2	62.7	816
	15-17	100.0	99.9	95.6	86.5	70.1	48.5	30.3	12.2	1.2	60.3	822
	18-20	100.0	99.9	98.3	92.3	82.8	69.3	47.0	19.1	3.4	67.0	820
	21-23	100.0	100.0	99.0	96.5	91.8	84.0	63.8	30.5	6.8	73.1	826
TOTALS		100.0	100.0	98.6	95.1	88.1	76.8	58.9	30.1	7.6	71.3	6589



APR  
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	00-02	100.0	100.0	99.7	98.5	96.1	90.5	74.4	37.1	7.6	76.3	793
	03-05	100.0	100.0	99.2	98.9	98.9	97.0	87.2	49.9	9.6	80.1	792
	06-08	100.0	100.0	99.6	99.2	98.2	95.1	81.6	46.0	6.3	78.6	797
	09-11	100.0	100.0	98.8	97.8	92.7	74.4	42.0	16.8	3.2	68.1	804
	12-14	100.0	99.9	97.3	91.7	71.7	39.4	18.8	7.7	.9	58.4	792
	15-17	100.0	99.6	95.1	81.3	56.8	34.2	20.6	8.0	.9	55.3	798
	18-20	100.0	100.0	97.9	91.0	73.9	52.4	35.3	15.2	2.8	62.5	796
	21-23	100.0	100.0	99.1	96.8	90.8	76.5	54.3	23.6	4.0	70.2	805
TOTALS		100.0	99.9	98.3	94.4	84.9	69.9	51.8	25.8	4.7	68.7	6377



## RELATIVE HUMIDITY

7 2430 SEATTLE/TACOMA IAP, WA  
STATION STATION NAME

73-81

MAY  
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JY	0-02	100.0	100.0	99.6	99.6	98.1	92.6	74.1	25.7	1.7	74.9	822
	3-05	100.0	100.0	99.8	99.5	99.3	96.6	89.7	43.3	2.9	78.9	823
	6-08	100.0	100.0	100.0	99.9	98.9	94.6	76.3	30.8	3.1	76.1	815
	9-11	100.0	100.0	100.0	98.7	90.6	64.1	31.4	10.8	.9	65.2	821
	12-14	100.0	100.0	98.8	91.8	62.6	32.5	15.0	6.2	.1	56.1	815
	15-17	100.0	100.0	96.1	79.4	51.5	29.5	17.0	6.6	.4	53.6	824
	18-20	100.0	100.0	98.9	91.1	70.7	47.2	28.3	9.7	.4	60.1	817
	21-23	100.0	100.0	99.8	99.2	92.1	77.3	50.5	18.2	.6	69.4	825
TOTALS		100.0	100.0	99.1	94.9	83.0	66.8	47.8	19.0	1.3	66.8	6562



## RELATIVE HUMIDITY

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81

JUN  
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	0-05	100.0	100.0	100.0	99.5	97.2	87.1	62.2	25.4	2.6	73.1	798
	05-10	100.0	100.0	100.0	99.9	99.4	95.6	80.6	37.0	4.0	77.3	799
	10-15	100.0	100.0	100.0	99.6	98.7	88.9	63.7	23.5	3.2	73.7	787
	15-20	100.0	100.0	99.6	97.4	86.0	53.8	28.2	9.9	1.0	63.3	799
	20-25	100.0	99.9	97.6	86.1	53.4	27.0	14.0	4.2	.3	54.1	794
	25-30	100.0	99.7	93.7	75.6	47.1	25.2	12.9	6.0	.5	51.8	798
	30-35	100.0	99.9	97.2	87.1	64.5	37.4	18.6	6.3	.5	57.2	791
	35-40	100.0	100.0	100.0	98.1	90.9	69.3	40.4	13.0	.9	67.1	799
	40-45											
	45-50											
	50-55											
	55-60											
	60-65											
	65-70											
	70-75											
	75-80											
	80-85											
	85-90											
	90-95											
	95-100											
TOTALS		100.0	99.9	98.5	92.9	79.7	60.5	40.1	15.7	1.6	64.7	6365



7-1983	SEATTLE/TACOMA IAP, WA	73-81	JUL
STATION	STATION NAME	PERIOD	MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	0-02	100.0	100.0	100.0	99.9	97.5	85.5	59.5	22.6	3.0	72.9	827
	3-05	100.0	100.0	100.0	100.0	99.8	96.8	79.3	37.3	4.3	77.9	823
	6-08	100.0	100.0	100.0	100.0	99.5	90.5	65.4	27.7	3.7	74.7	819
	9-11	100.0	100.0	100.0	98.1	83.8	52.0	22.2	7.8	1.6	62.7	823
	12-14	100.0	100.0	98.5	85.0	51.3	20.5	7.2	2.0		52.1	820
	15-17	100.0	99.8	95.0	74.0	37.1	15.6	6.5	1.5		48.4	819
	18-20	100.0	99.9	98.1	85.8	57.7	28.2	11.6	4.5	.1	54.3	826
	21-23	100.0	100.0	99.8	97.9	90.5	66.3	34.0	9.0	1.1	65.8	823
TOTALS		100.0	100.0	98.9	92.6	77.2	56.9	35.7	14.1	1.7	63.6	5577



AL CLIMATOLOGY BRANCH  
TAC  
WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

7 7 3	SEATTLE/TACOMA IAP, WA
STATION	STATION NAME

73-81

AUG  
MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	0-02	100.0	100.0	100.0	100.0	98.9	94.4	82.1	45.7	8.5	79.1	822
	03-05	100.0	100.0	100.0	100.0	100.0	98.8	93.6	67.4	17.5	84.3	828
	06-08	100.0	100.0	100.0	100.0	99.9	97.5	86.9	57.9	15.3	82.2	811
	09-11	100.0	100.0	100.0	99.4	92.8	76.9	49.3	25.9	4.4	75.6	823
	12-14	100.0	100.0	98.9	91.2	71.0	41.8	18.8	8.2	1.0	58.9	818
	15-17	100.0	100.0	96.0	79.4	54.4	31.4	15.0	8.8	1.3	54.1	821
	18-20	100.0	100.0	98.5	90.6	72.8	50.6	27.9	12.0	1.1	61.1	820
	21-23	100.0	100.0	100.0	98.5	93.9	79.2	58.6	25.8	3.4	72.2	826
TOTALS		100.0	100.0	99.2	94.9	85.5	71.3	54.0	31.0	6.6	70.3	6569



7 100 SEATTLE/TACOMA LAP, WA  
STATION STATION NAME

73-81

SEP  
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
1-4	00-02	100.0	100.0	99.2	99.0	98.6	96.0	88.1	5.7	7.0	82.3	797
	3-05	100.0	100.0	99.5	99.4	99.4	98.9	95.8	68.0	13.7	63.8	794
	6-08	100.0	100.0	99.6	99.5	99.2	98.3	93.9	63.8	13.6	83.0	784
	9-11	100.0	100.0	99.4	97.9	93.3	80.5	53.0	23.3	3.7	71.1	800
	12-14	100.0	99.9	96.8	91.2	76.3	44.7	23.5	8.0	.5	59.9	792
	15-17	100.0	98.7	95.5	87.7	65.4	39.1	20.5	8.0	1.4	57.5	797
	18-20	100.0	100.0	98.4	96.1	87.3	69.5	42.7	15.5	1.6	67.2	796
	21-23	100.0	100.0	99.2	98.2	94.8	88.3	68.8	29.5	3.3	74.3	796
TOTALS		100.0	99.8	98.5	96.1	89.3	76.9	60.8	33.4	5.5	72.1	6356



ALABAMA CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

7 193	SEATTLE/TACOMA IAP, WA	73-81	OCT
STATION	STATION NAME	PERIOD	MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OAS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JULY	0-02	100.0	100.0	99.8	99.6	99.5	97.3	91.2	59.9	13.6	81.8	815
	03-05	100.0	100.0	100.0	99.8	99.3	98.7	93.6	71.9	22.3	84.3	815
	06-08	100.0	100.0	100.0	99.6	98.8	97.4	93.5	68.9	25.2	84.2	817
	09-11	100.0	100.0	99.8	99.0	97.3	89.5	70.3	34.9	11.1	76.2	822
	12-14	100.0	100.0	99.5	96.8	88.1	66.0	40.1	16.6	3.3	66.8	821
	15-17	100.0	100.0	99.5	97.1	87.2	63.1	38.1	18.1	2.4	66.3	827
	18-20	100.0	100.0	99.6	99.5	97.1	88.0	64.9	27.9	3.4	73.9	823
	21-23	100.0	100.0	99.6	99.6	99.1	97.0	83.7	46.3	7.2	78.9	823
TOTALS		100.0	100.0	99.7	98.9	95.8	87.1	71.9	43.1	11.1	76.6	6563



## RELATIVE HUMIDITY

NCV  
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NAL	00-02	100.0	100.0	99.5	97.9	95.3	90.7	82.4	67.5	22.2	80.5	778
	03-05	100.0	100.0	99.7	98.6	95.7	92.5	87.7	65.2	24.4	82.0	795
	06-08	100.0	100.0	99.6	98.1	96.6	93.7	87.0	66.2	26.3	82.5	794
	09-11	100.0	100.0	99.7	98.0	94.6	89.9	75.8	43.5	17.9	78.0	794
	12-14	100.0	100.0	99.4	95.8	93.1	80.9	60.8	34.0	9.9	72.9	794
	15-17	100.0	100.0	99.1	96.6	92.1	81.2	62.5	34.5	8.0	73.1	797
	18-20	100.0	100.0	99.4	97.6	95.3	88.8	74.8	49.1	13.0	77.4	801
	21-23	100.0	100.0	99.2	97.7	95.5	91.3	79.8	55.2	16.7	79.1	797
TOTALS		100.0	100.0	99.5	97.5	94.7	88.6	76.4	51.7	17.3	78.2	6350



## RELATIVE HUMIDITY

7-3  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81

DEC  
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	0-02	100.0	100.0	100.0	98.8	96.0	92.6	86.5	61.9	16.1	80.9	624
	03-05	100.0	100.0	99.9	99.2	96.4	93.8	86.2	62.5	18.2	81.2	825
	06-08	100.0	100.0	99.9	99.0	96.7	93.4	86.8	62.8	16.7	81.1	818
	09-11	100.0	100.0	99.9	98.9	96.5	93.9	80.8	50.7	11.9	78.8	622
	12-14	100.0	100.0	99.3	97.7	95.7	88.0	67.5	36.3	9.7	75.1	615
	15-17	100.0	100.0	99.1	97.3	95.2	89.6	70.9	40.0	9.5	75.7	814
	18-20	100.0	100.0	99.6	97.9	95.4	90.4	78.2	50.7	12.3	78.1	622
	21-23	100.0	100.0	99.4	97.9	94.9	90.7	82.4	55.9	13.3	79.0	820
TOTALS		100.0	100.0	99.6	98.3	95.9	91.6	79.9	52.6	13.5	78.7	6560



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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

7 1983  
STATION

SEATTLE/TACOMA IAP, WA  
STATION NAME

73-81

PERIOD

ALL  
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	99.1	96.0	91.6	86.4	80.7	67.9	42.6	11.7	73.3	6574
FEB		100.0	99.8	98.8	96.7	90.7	82.1	67.8	41.1	9.8	74.4	5976
MAR		100.0	100.0	98.6	95.1	88.1	76.8	58.9	30.1	7.6	71.3	6589
APR		100.0	99.9	98.3	94.4	84.9	69.9	51.8	25.8	4.7	68.7	6377
MAY		100.0	100.0	99.1	94.9	83.0	66.8	47.8	19.0	1.3	66.8	6562
JUN		100.0	99.9	98.5	92.9	79.7	60.5	40.1	15.7	1.6	64.7	6365
JUL		100.0	100.0	98.9	92.6	77.2	56.9	35.7	14.1	1.7	63.6	6577
AUG		100.0	100.0	99.2	94.9	85.5	71.3	54.0	31.0	6.6	70.3	6569
SEP		100.0	99.8	98.5	96.1	89.3	76.9	60.8	33.4	5.5	72.1	6356
OCT		100.0	100.0	99.7	98.9	95.8	87.1	71.9	43.1	11.1	76.6	6563
NOV		100.0	100.0	99.5	97.5	94.7	88.6	76.4	51.7	17.3	78.2	6350
DEC		100.0	100.0	99.6	98.3	95.9	91.6	79.9	52.6	13.5	78.7	6560
TOTALS		100.0	99.9	98.7	95.3	87.6	75.8	59.4	33.4	7.7	71.6	77418

USAFETAC

FORM  
AN 64

0-87-5 (OL A)



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART F

PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.

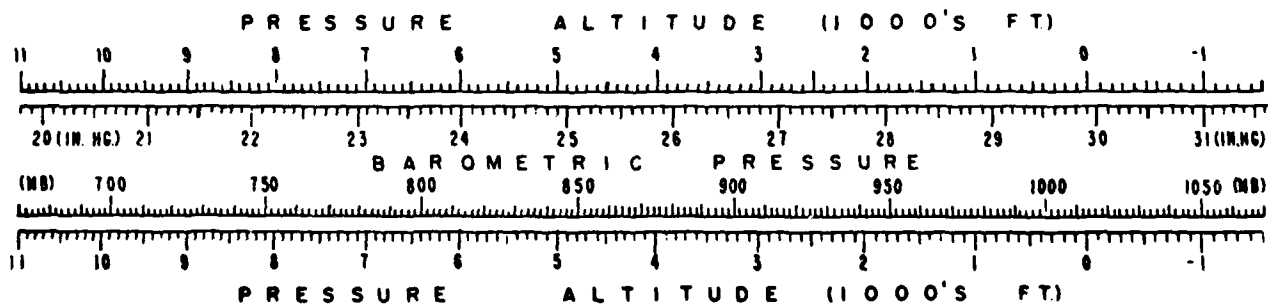
Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.

METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.

2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.





2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

73-81 SEATTLE/TACOMA IAP, WA

73-81

STATION

STATION NAME

YEARS

HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	29.583	29.532	29.514	29.583	29.577	29.592	29.585	29.547	29.556	29.593	29.566	29.563	29.566
S D	.272	.264	.214	.186	.152	.113	.099	.109	.149	.201	.245	.266	.200
TOTAL OBS	277	249	274	266	276	265	273	274	266	275	258	273	3228
MEAN	29.571	29.508	29.498	29.567	29.560	29.579	29.577	29.538	29.543	29.574	29.553	29.554	29.552
S D	.273	.270	.218	.184	.155	.114	.096	.106	.150	.199	.243	.261	.200
TOTAL OBS	279	252	279	268	275	269	278	279	270	277	264	278	3268
MEAN	29.578	29.520	29.522	29.593	29.592	29.607	29.608	29.572	29.572	29.593	29.571	29.562	29.574
S D	.276	.273	.224	.189	.155	.122	.100	.109	.153	.209	.242	.265	.204
TOTAL OBS	271	247	277	267	272	257	272	270	260	273	265	267	3198
MEAN	29.590	29.529	29.526	29.590	29.580	29.596	29.600	29.562	29.571	29.598	29.574	29.577	29.575
S D	.271	.272	.226	.188	.153	.118	.096	.107	.152	.210	.245	.265	.203
TOTAL OBS	277	251	276	269	279	268	278	278	270	279	269	278	3272
MEAN	29.580	29.531	29.523	29.588	29.581	29.597	29.604	29.562	29.570	29.592	29.574	29.573	29.573
S D	.268	.270	.219	.186	.153	.119	.098	.110	.151	.209	.239	.263	.200
TOTAL OBS	263	248	275	264	268	266	276	273	266	272	264	274	3214
MEAN	29.558	29.500	29.493	29.555	29.549	29.570	29.568	29.527	29.536	29.563	29.547	29.560	29.544
S D	.264	.267	.211	.180	.143	.114	.098	.108	.145	.200	.236	.257	.195
TOTAL OBS	277	250	275	267	275	266	277	277	270	279	269	273	3255
MEAN	29.572	29.512	29.505	29.564	29.555	29.572	29.565	29.525	29.542	29.577	29.559	29.569	29.552
S D	.264	.264	.214	.178	.143	.114	.099	.108	.144	.201	.237	.259	.196
TOTAL OBS	277	250	275	267	268	263	275	276	266	276	265	276	3234
MEAN	29.565	29.509	29.508	29.570	29.560	29.575	29.570	29.528	29.544	29.574	29.551	29.560	29.551
S D	.267	.262	.211	.176	.145	.110	.097	.107	.143	.199	.242	.263	.196
TOTAL OBS	278	253	278	270	275	270	278	279	270	278	270	277	3280
ALL HOURS	MEAN	29.574	29.518	29.511	29.576	29.569	29.586	29.585	29.545	29.554	29.583	29.562	29.561
S D	.269	.267	.217	.184	.150	.116	.099	.109	.149	.204	.241	.262	.199
TOTAL OBS	2236	2000	2209	2138	2192	2124	2207	2206	2138	2209	2124	2196	25949



### MEANS AND STANDARD DEVIATIONS

7 143 SEATTLE/TACOMA IAP, WA

73-81

5. ▲. ○ 2

STATION NAME

YEARS

USAFETAC FORM 0.89.5 (OLI)



END

DATE  
FILMED

9 82

DTI